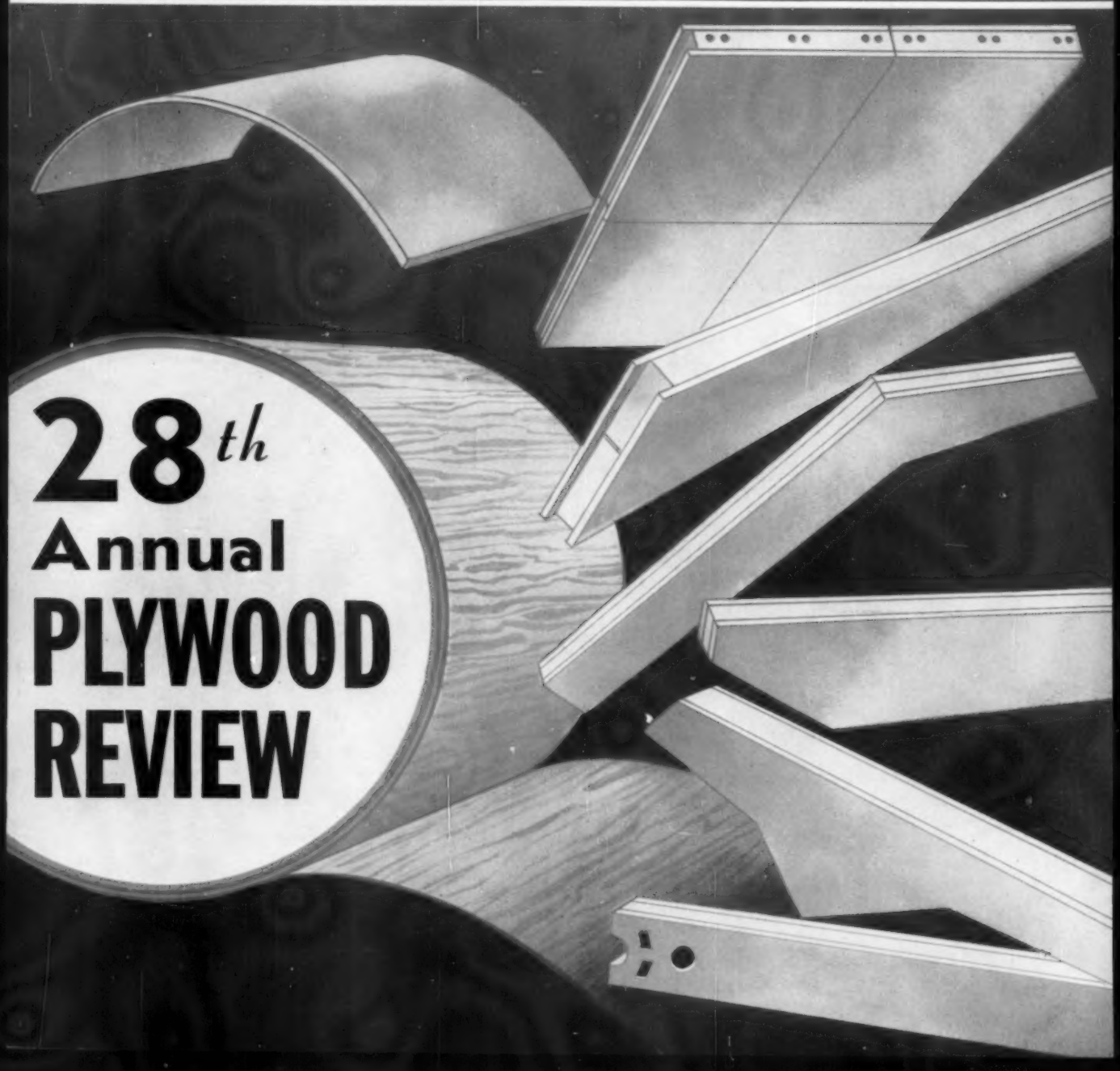
DECEMBER 29, 1958

THE Lumberman

LUMBER PLYWOOD BOARD WOOD MANUFACTURING



28th Annual PLYWOOD REVIEW

SILVACON® extenders give "more uniform spread ...better control"

Hugh Wilcox, quality control man at Cascades Plywood Corporation, checks glue coverage. For 12 years Hugh has depended on Silvacon extenders to help maintain top quality as well as one of the industry's lowest glue-line costs.

Cascades Plywood has a 12 year record of Silvacon performance to back up these glue line facts . . .

Silvacon is shipped in easy-to-handle 50-lb. bags. It is available in two grinds tailored for use in a variety of glue formulations.

Added to Cascades's glue line in 1946, Silvacon 472 continues its dependable performance record into 1959. To answer *why* this leading plywood producer has depended upon Silvacon as an extender in exterior plywood glues for the past 12 years, let's ask the men at Cascades:

"Better spreadability—more uniform coverage" Silvacon glues have a low spread weight and a high viscosity. They stay put and do not migrate from high to low spots. This minimizes core rejects due to inadequate coverage.

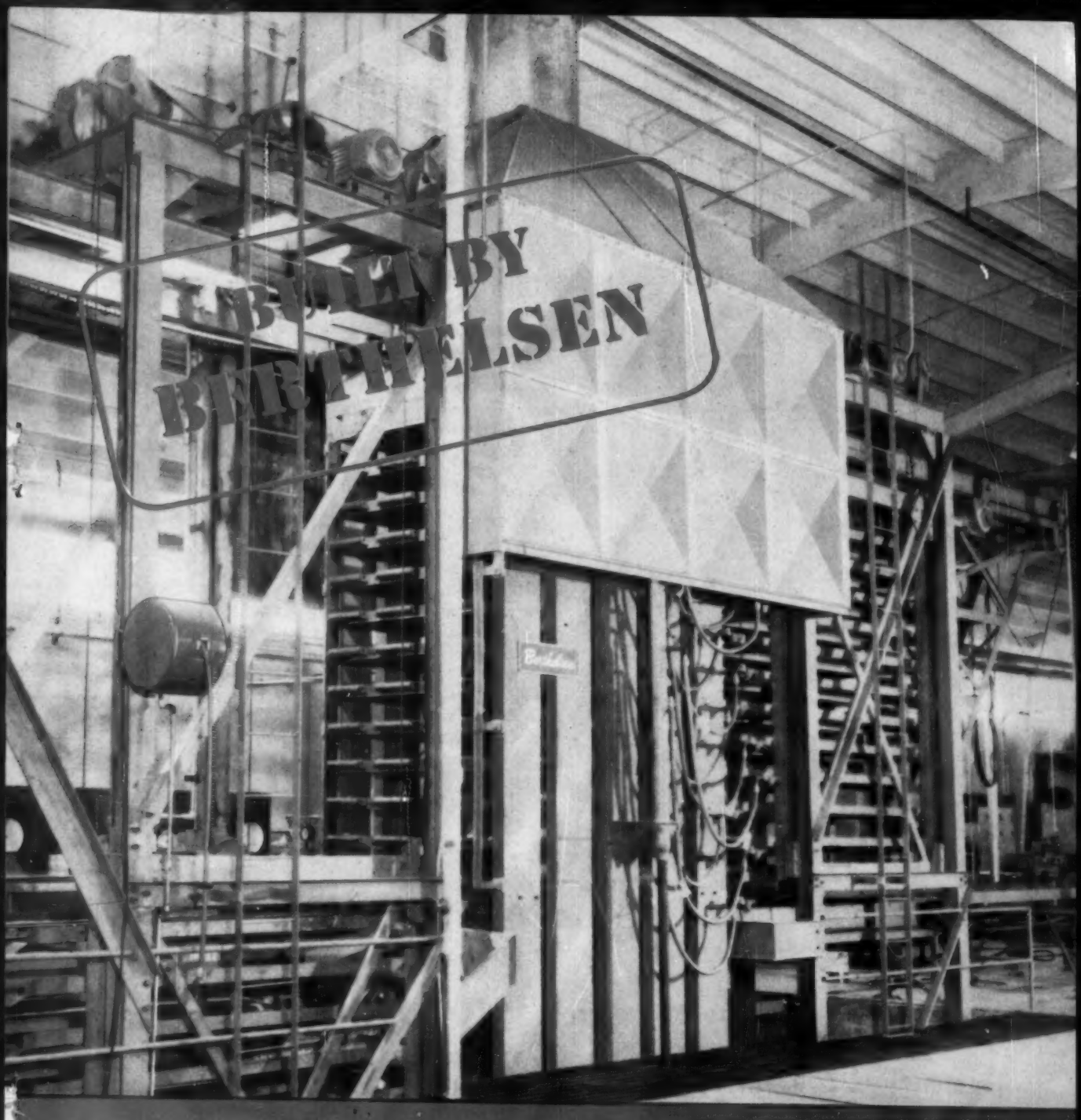
"Better control—greater spread tolerance" Silvacon glues need less control at the spreader. They have a high safety factor at either end of the spread range that combats "dry-out" and "cure-out" problems.

All this adds up to more dependable quality, less core waste, fewer rejects and *lower glue line costs.* Ask your resin company representative or Silvatek man about Silvacon extenders and arrange for a plant test now. You can count on expert technical assistance and immediate delivery on your Silvacon 472 requirements.

A WEYERHAEUSER Silvatek PRODUCT

WEYERHAEUSER
SILVACON®
A Regional Forest Product

For data on new fast-setting Silvacon glues, write Silvatek Box S, Weyerhaeuser Timber Company, Tacoma 1, Washington



This Multi-opening Berthelsen Press for reconstituted particle, flake or fiber board production was engineered and built for the **Brownsville Particle Board & Associated Products Inc.** in Brownsville, Oregon.

The first press designed specifically for reconstituted board production, it incorporates many features that are engineering "firsts" for this type of equipment:

- Chambered high thermal capacity main and intermediate platens with defined minimum deflection tolerances
- Multiple frames, resistant to longitudinal axial thrust loads as well as normal compression pressures
- Longitudinal thrust bearings on each platen in addition to standard platen guides
- "Electric Brain" pressure system, wherein the rate of platen closure is automatically controlled by rate of cure.

You too, can benefit from Berthelsen "engineering know-how" by specifying that the automatic hydraulic hot press equipment you need in your plant be **"Built by Berthelsen."**

BERTHELSEN PRESSES

P. O. BOX 1425
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JOLIET, ILLINOIS

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ARMORBORD — 1/16" HARDBOARD

ARMORTEX — BOAT HULL PANELS

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PLASTIC SURFACED HARDBOARDS — ARMORON

PING-PONG TABLES

INTERIOR FIR PLYWOOD

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DECEMBER 29, 1958

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THE Lumberman

LUMBER PLYWOOD BOARD WOOD MANUFACTURING

Editorial

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GREATER VENEER RECOVERY

Achieved with the
ELLIOTT BAY SEMI-AUTOMATIC CLIPPER

FOR ALL VENEER OPERATIONS

Greater efficiency in veneer cutting is introduced by the Elliott Bay Semi-Automatic Clipper, proved by years of successful operation in many Douglas fir, pine and hardwood plywood factories.

Plant space is conserved as long storage trays are unnecessary; the Elliott Bay Clipper can be short-coupled to the lathe, with which it is synchronized at lathe speed.

Tearing of veneer is eliminated, thus saving raw material; the clean-cutting clipper knife operates against a long-lasting copper shear bar.

Push button controls afford accurate selectivity of veneer of varying widths. The advanced and tested Elliott Bay Clipper is of all-steel, precision construction. Ease of installation and minimum upkeep demonstrated repeatedly.

SAVES SPACE
FAST-ACTING
ACCURATE

ELLIOTT BAY PLYWOOD MACHINES COMPANY

600 West Spokane Street, Seattle 4, Washington

Sales Representative: WIENKER MACHINERY CO., Maritime Building, Seattle 4, Washington

Link-Belt SS chain proves equal to the punishing service of log handling

STACKS OF 8-FT. LOGS are carried smoothly by this double strand storage conveyor of Link-Belt SS Chain at mill of Weyerhaeuser Timber Co., Longview, Washington.

Easily withstands impact, abrasion and heavy loads

Dependable performance on heavy-duty jobs like that at left has won wide favor for Link-Belt SS bushed chain.

Exceptional Durability

With its great strength and stamina, this steel fabricated chain easily absorbs repeated impact loads . . . shrugs off abrasive and corrosive conditions that often cause early failure of ordinary chain. This ruggedness assures top operating economy by reducing maintenance, replacements, and conveyor shutdowns.

Many design refinements

Long-life design of Link-Belt SS bushed chain incorporates sidebars of selected bar steel, accurately formed and machined for tight press fit of pins and bushings. The latter are made from hardened steel and positively locked against rotation in sidebars.

In addition, Link-Belt offers a broad selection of attachments which allow economical adaptation to a variety of conveying and elevating needs.

Joint surfaces are made extra hard to prolong chain life

Throughout the lumber and pulp and paper industries, Link-Belt SS chain is setting amazing endurance records in the face of highly abrasive conditions. This success stems from a combination of design refinements and accurately controlled manufacturing processes. And one of the most important is extra hard joint surfaces.

These tough, smooth surfaces—up to five times harder than standard malleable—resist wear resulting from day-in, day-out service involving heavy shock loads and constant exposure to cutting action of abrasive particles. They repel gritty materials . . . prevent troublesome packing.

Another factor that adds to the endurance of Link-Belt SS chain is its extra-thick steel sidebars. They present a greater stability and, together with hardened steel pins and bushings, provide the strength needed to prevent distortion under continuous heavy loads. Also, hardened steel bushings minimize wear from sprocket tooth action.

VERSATILE SS CHAIN is used extensively in wood rooms at several Weyerhaeuser mills . . . as inclined and horizontal log haul conveyors and on log decks to and from breakdown machinery.

HEADQUARTERS for chains, sprockets and other Link-Belt products is your nearby Link-Belt factory branch store or authorized stock-carrying distributor. Refer to the Yellow Pages of your local Phone Directory.

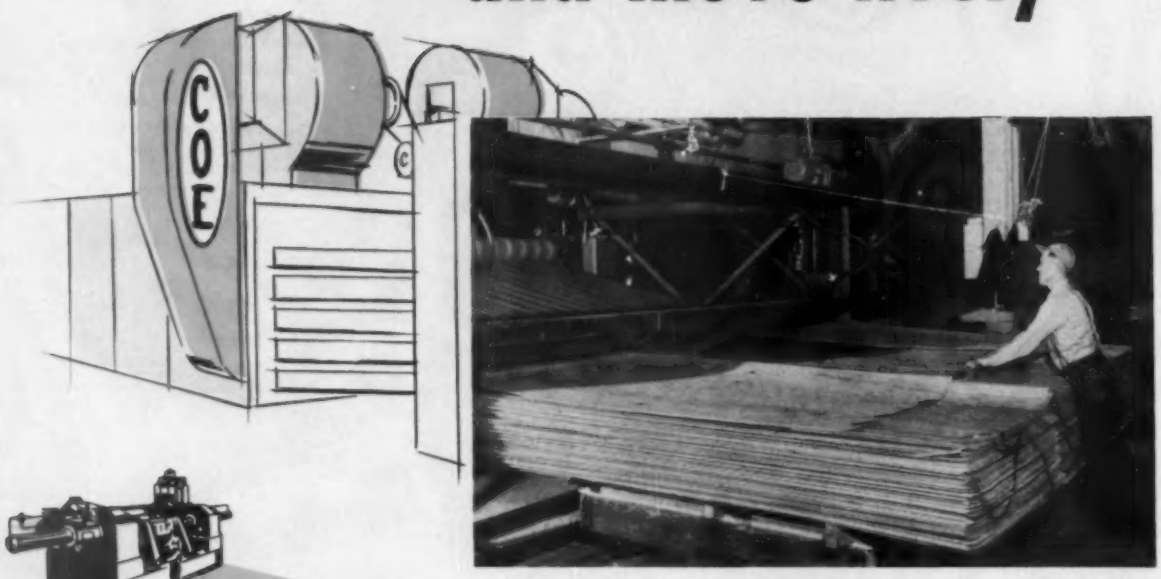
LINK-BELT

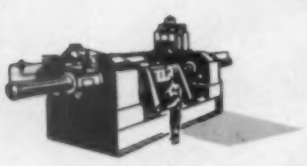
CHAINS AND SPROCKETS

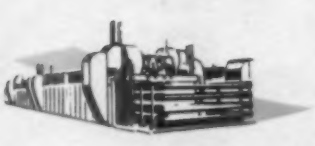
14,092

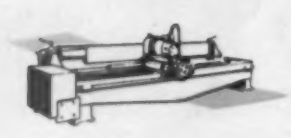
LINK-BELT COMPANY: To Serve Industry There Are Link-Belt Plants, Sales Offices and Factory Branch Stores at San Francisco 24, Los Angeles 22 (Montebello), Seattle 4. Sales Offices and Factory Branch Stores at Portland 10, Spokane 10, Salt Lake City 1. Stock Carrying Distributors in Principal Areas.

"STEP AHEAD and move lively"









If it were capable of speaking, the Coe Dryer Feeder might well give this command to veneer being received—"STEP AHEAD and Move Lively".

Dryer production steps up to full capacity when a Coe Feeder is installed ahead of a Veneer Dryer because full coverage can easily be obtained, whereas this is not possible with straight manual methods.

With any one of the several models available the operator automatically feeds each sheet close behind the preceeding one at the proper moment, thus avoiding gaps between sheets.

Veneer Dryer Feeders, which were conceived and developed by Coe, are one of the many labor saving Devices available to the Plywood Industry today. Modern machines and methods are essential to keeping costs competitive and profit margins intact.

It is with these important facts in mind that other new features are constantly being built into Coe machines, without sacrificing the reliability that has been long associated with the Coe name. Have you talked with your Coe Sales Engineer lately?

THE COE MFG. CO.

VENEER MACHINERY *Since 1852*

Painesville, Ohio

For all your plywood needs...

ROBINSON PLYWOOD & TIMBER COMPANY

exclusive sales agents for

EVERETT PLYWOOD & DOOR CORPORATION

largest worker-owned plant in the industry

DFPA TESTED QUALITY

FIR PLYWOOD

INTERIOR

EXTERIOR

(all standard sizes and grades)

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KNOTTY CEDAR

BRUSHED

2·4·1 SUBFLOOR

V-GROOVE

SCARFED PANELS

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MARINE MAHOGANY

RIBBON GRAIN MAHOGANY

UNDERLAY MAHOGANY

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BIRCH

RED OAK

MAPLE

AND OTHER SPECIES

ROBINSON PLYWOOD & TIMBER CO.
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ROBIN BRAND

ROBIN BRAND plywood is manufactured to meet the strict quality requirements of U. S. Commercial Standards. Every Robin Brand* panel—exterior and interior—is *hotpressed* to assure uniform thickness, stability and low moisture content; the most modern precision machinery is used throughout.
(*as manufactured by Everett Plywood & Door Corporation)

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...make the best!

Investigate **BAEHRE's**

exclusive features

BISON BOARD

Baehre

SYSTEM

Producing the world's finest flakeboard

Features:

1. Automatic mat-forming station with air separator concentrates larger flakes in center of board, only fines to exterior, making a graduated 3-layer effect.
2. No "telegraphing" through face veneer, although only 1/32" veneer applied.
3. Thin sections of rabbets, mitres and dadoes are stronger due to compact fine flake structure at exterior. May be banded for perfect finish.

Now represented exclusively in the United States by Soderhamn. Complete engineering service for a lock-and-key installation with quality and production guaranteed. *Call, wire or write your nearest Soderhamn office.*

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Also representing:

BECKER & VAN HULLEN presses — veneer and plywood.

JONSEREDS famous woodworking machines. A complete line of production machines made by the oldest and largest Swedish manufacturer. Catalog on request.

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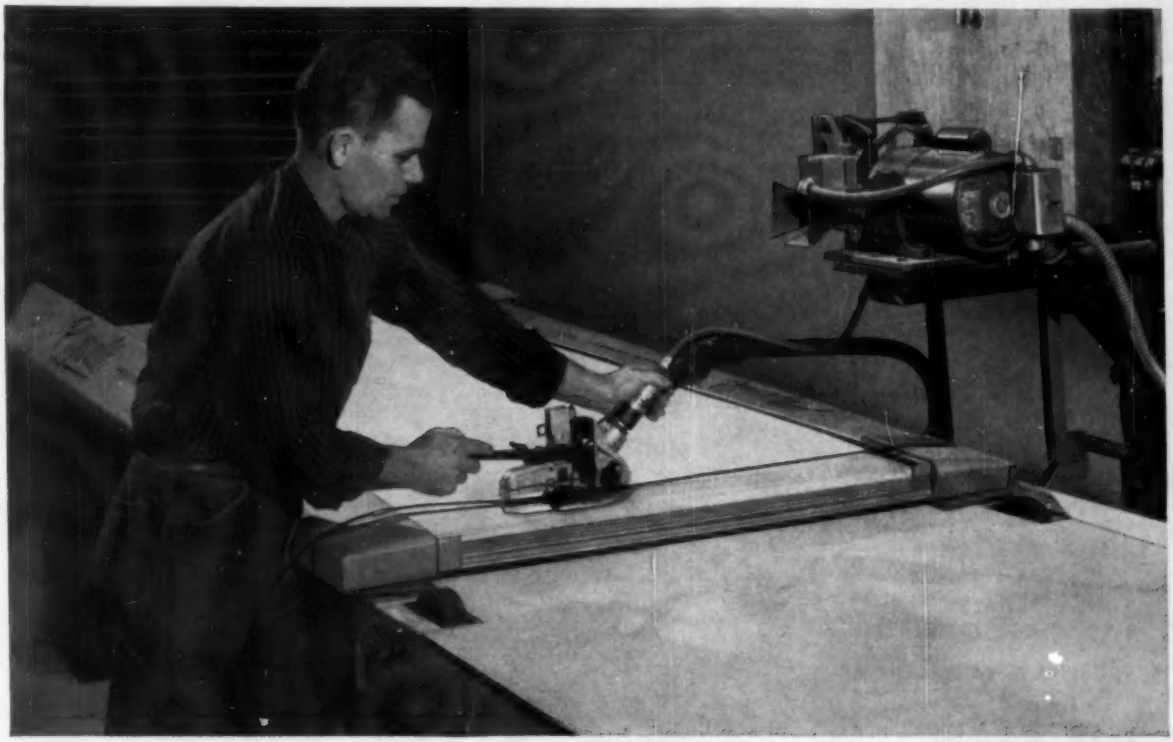
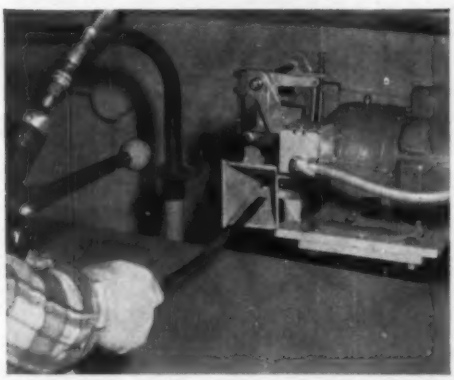


New Signode Power Strap Feeder Speeds Strapping of 4′ x 8′ Panels



Feed the strap into the motorized feeder and press the foot button—the ¼ horsepower motor of the PSF-1 feeds the strap back to you at the bottom front of the bundle. Releasing the foot button ejects the strap from the feeder, ready for tensioning. Strap chute sections and adjustable frame supports to fit your bundle are supplied.

No helper to feed the strap back...no walking around the bundle! The new Signode Model PSF-1 Power Strap Feeder takes the strap, feeds it down behind and under the bundle to the operator, in seconds. In this picture, the operator has applied the first of three straps around a bundle of pre-finished plywood. He is tensioning it with Signode's air-powered seal feed strapping machine, the Model AP. It delivers pre-set tension every time, seals and cuts off the strap in one stroke of the handle.

Veneer, plywood, wallboard, chipboard, and millwork are examples of the items on which the use of these machines promises strapping savings of 50% or more in strapping-labor costs alone. Yet this Signode power strapping equipment...feeder and tool...can be rented for less than $5.00 a week!

The Signode man near you will be glad to demonstrate either or both of these machines. Call him, or write Signode for literature.

First in steel strapping

SIGNODE STEEL STRAPPING CO.

2616 N. Western Avenue, Chicago 47, Illinois

Los Angeles 1, 659 East Gage Ave. • Pittsburg, Calif., Loveridge Road • Eugene, 1955 Todd
Portland, 1599 N.W. Irving St. • Seattle 4, 1750 Occidental Ave. • Spokane, 617 Paulsen Bg.
Olympia, 1024 Eskridge Blvd. • Canadian Steel Strapping Co., Ltd., Vancouver, B.C.

Idaho Veneer Expands Line of Specialties

An expanded range of veneer products is now being manufactured at Idaho Veneer Co., Post Falls, Ida. During 1958, a plant addition was erected and a new department inaugurated for rotary cutting of veneer. A Coe lathe, a veneer clipper and tray system now make it possible to offer rotary veneer in addition to the regular V sliced veneer.

The lathe will specialize in ponderosa pine 8-foot veneer. Both face and core stock either dry or green will be sold to plywood plants.

Pre-finishing Due

A plywood pre-finishing line is under construction at Multi-Use Panel Corp., Eugene, Ore., under license from Satin Surfaces, Inc., Louisville, Ky.

An 80x80-foot building addition will house the equipment.

●

• A Globe spreader and Ederer cold press are new at Custom Plywood Co., Grants Pass, Ore. A Jeddeloh strap-cutter which cuts strapping into small pieces for easier disposal was also added.

veneer quality and profits can be increased with WAPAKONETA KNIVES

Wapakoneta Veneer Knives give you maximum service between grinds and top cutting quality. Each knife is custom-made of the proper analysis of electric-induction tool steel. Precise tempering enables it to take and hold a perfectly straight, super-keen edge . . . to withstand the shock and abrasion of grueling service.

Features like these are your guarantee of better veneer mill operations:

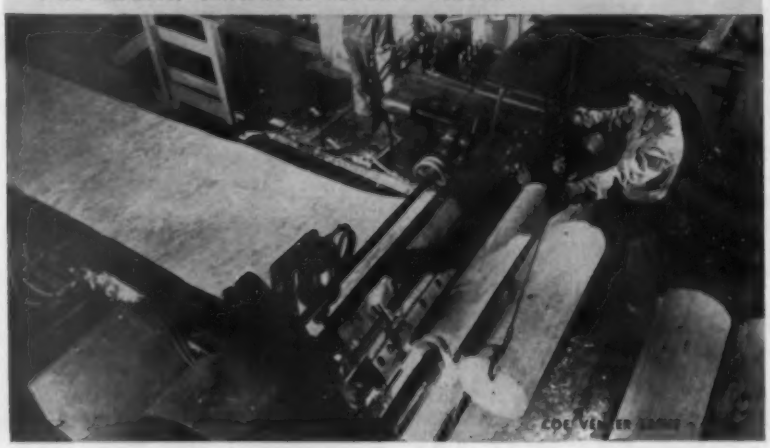
1. Choice of proper analysis steel to suit the type of wood you are running.
2. True cutting edge and polished finish on face side for uniform production and long wear.
3. Knives up to 213 inches in length with the same toughness and uniformity of hardness as smaller sizes.
4. Carefully-maintained records to assure exact duplicates without costly delays.

Investigate savings with Wapakoneta Veneer Knives.

THE WAPAKONETA MACHINE CO.

INCORPORATED 1891—WAPAKONETA 3 OHIO

Also manufacturers of THIN PLANER KNIVES—SHAPER STEEL—CORRUGATED BACK KNIVES—CHIPPER KNIVES—HOG KNIVES—POLE KNIVES



FHA Approves Teco Plywood Testing

Timber Engineering Co., Washington, D. C., has been designated by the Federal Housing Administration, as an accredited testing agency for the quality control and grade marking of plywood, according to Western Veneer & Plywood Co. of Lebanon, Ore.; Willamette National Lumber Co., of Dallas, Ore., and Plywood Products Co., Corvallis, Ore., the present authorized producers to use the TECO testing and grade marking services.

This marks TECO's first entry into the testing of plywood, though they have a long established record of testing other wood products.

For the past 25 years, the industry owned Douglas Fir Plywood Association's testing laboratory, Tacoma, Wash., has been the sole approved testing agency for plywood quality control, issuing the approved DFPA grade-trademarked to companies complying with its high standards.

TECO testing will introduce a second independent laboratory offering a similar service. The TECO grade stamp will identify plywood as FHA structural quality, by inserting the word "STRUC" on the present grade stamp. This is in keeping with the FHA's establishing a structural grade for plywood to insure dependable quality for load bearing plywood applications.

Testing methods have not yet been announced by TECO, but it is expected that they will be similar to the uniform practices long established by DFPA.

●

Simple Change Saves Money In Plywood Glue Room

A minor mechanical change has resulted in considerable improvement in glue room efficiency, economy and cleanliness.

At the glue room of Evans Products, Ltd., Vancouver, B. C., the mechanical department under master mechanic Claude Duplat, installed a small air line to the bottom of the glue mixing tank. This air line, under 100 psi, provides enough agitation to keep the "mud" from forming around the mixing paddle shaft. It eliminates lumps in the glue mix. Since only a small amount of air is let in, the mix does not bubble up. The glue flows more easily and eliminates waste and makes clean-up simpler.

●

• An 80x160-foot plant addition for added storage has been completed at the Fir-Ply, Inc., plywood plant at White City, Ore.

AT LAST... A consistent quality plywood!

RIGID QUALITY CONTROL is assured by a resident technician at each plant using the Teco-Tested mark. This full time Teco technician has been trained by the well known Timber Engineering Company.

TOUGHER GLUE LINE TESTING produces a uniformly higher glue line strength at no extra cost.

TECO-DIRECTED QUALITY CONTROL means that the veneer, the plywood panel and, finally, each lot, is tested to comply with or exceed Commercial Standards.

ASSURANCE OF CONSISTENT QUALITY is yours, day after day, month after month, because of TECO laboratory control and testings right at the manufacturing plant.

TECO TESTED
IN ACCORDANCE WITH
CD-INT
PLY
THE COMMERCIAL STANDARD FOR
DOUGLAS FIR PLYWOOD

Order Teco-Tested plywood for your next job. It's available in mixed or straight cars from three progressive companies.

PLYWOOD PRODUCTS CORP.
Corvallis, Oregon

WESTERN VENEER & PLYWOOD COMPANY
Lebanon, Oregon

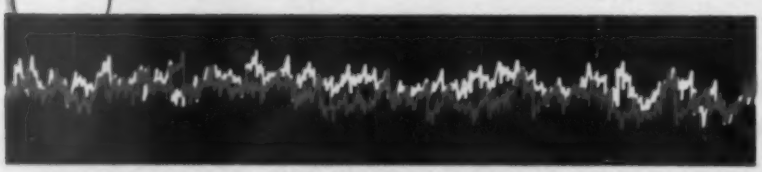
WILLAMETTE NATIONAL LUMBER COMPANY
Division of Willamette Valley Lumber Co., Dallas, Ore.

API VENEER TAPE

The line that guarantees

uniform adhesive qualities

inch after inch—roll after roll



Accu Ray chart on which continuous electronic measurement of glue application to API Veneer Tape is recorded.

API Tapes
the ADHESIVE PRODUCTS INC.
520 East Shore Highway
Albany, California
Seattle • Los Angeles

New Veneer Operation at Crescent City, Calif.

On the site of the former Crescent City Plywood Co., near Crescent City, a new veneer plant, owned by E. E. Roberts, went into production in October. Superintendent is Edward Hughes. The plant will turn out Douglas fir green veneer and, later, studs. Capacity of 4 million feet a month, 3/8 basis, is planned.

A Jackson lathe, 8-foot, with 84-inch swing, is installed. Employment at the start-up was approximately 20 men. Engineering for the plant was done by Industrial Machine and Pump Co., Medford, Ore. Conway Blowpipe Co. of Sacramento, erected the burner.

●

New Sanding Technique Extends Paper Life

Canadian Western Lumber Co., Fraser Mills, B. C., has adopted a new panel sanding technique that extends paper life and gives a satin finish to the plywood. Their regular Yates sanders do the job and belt sanding to get the satin finish is unnecessary.

Here is a grit chart to show how they get best end results:

	1st Pass	2nd Pass	3rd Pass	4th Pass
New system	3-0	1½	½	00
Old system	2½	1½	1	0-belt

●

Two Edge Gluers Added at California Plant

Two Mann-Russell edge gluers have been installed at the Mutual Plywood Corp. at Samoa. Controls and Communications Co. controls have been added to the clippers and a sliding head has been installed on the Coe lathe according to manager Howard Garrison. Mutual's stockholders voted favorably October 11 on the proposal by U. S. Plywood Corp. to buy Mutual for $7.5 millions.

●

Core Saw Ordered

A new Wheeler band core saw manufactured by Salem Iron Works, Salem, Ore., is soon to be installed at the Coos Bay Timber Company plywood plant at Coquille, Ore. A Coe 14-section dryer with Coe feeder was recently moved to the plant.

●

Plant Improvements Noted

A new Coe dryer feeder has been installed on a Moore 6-line 16-section dryer at Western States Plywood Co-op, Port Orford, Ore. A Skoog patcher was also added with a Worthington air compressor and a Victor clipper slated for early installation.

STANDARD ENGINEER'S FIELD REPORT

PRODUCT CHEVRON* INDUSTRIAL GREASE

FIRM RICKINI LUMBER CO. Lakeside, Oregon

Chevron* Grease Doubles Bearing Life at 450°F.

Original set of burner bearings (see arrow), lubricated with Chevron Industrial Grease (formerly Calol), is still in service at the Rickini Lumber Co., after 18 months operation. Stirl Dunlop, Mill Superintendent, says, "Chevron Industrial Grease stays on these bearings and performs satisfactorily—even when burner temperatures reach 450°. In my 25 years experience I've found that burner bearings ordinarily last about eight months in this kind of severe service. The bearings on our burner, installed a year and a half ago when the mill began operation, still show no sign of trouble. Because of its resistance to high temperatures, we now use Chevron Industrial Grease on all grease-lubricated high-speed bearings in the mill." Mr. Dunlop also reports that using one grease and one gun ends lube errors.

CHEVRON Industrial Lubricants

TRADEMARK "CHEVRON" AND DESIGN REG. U.S. PAT. OFF.

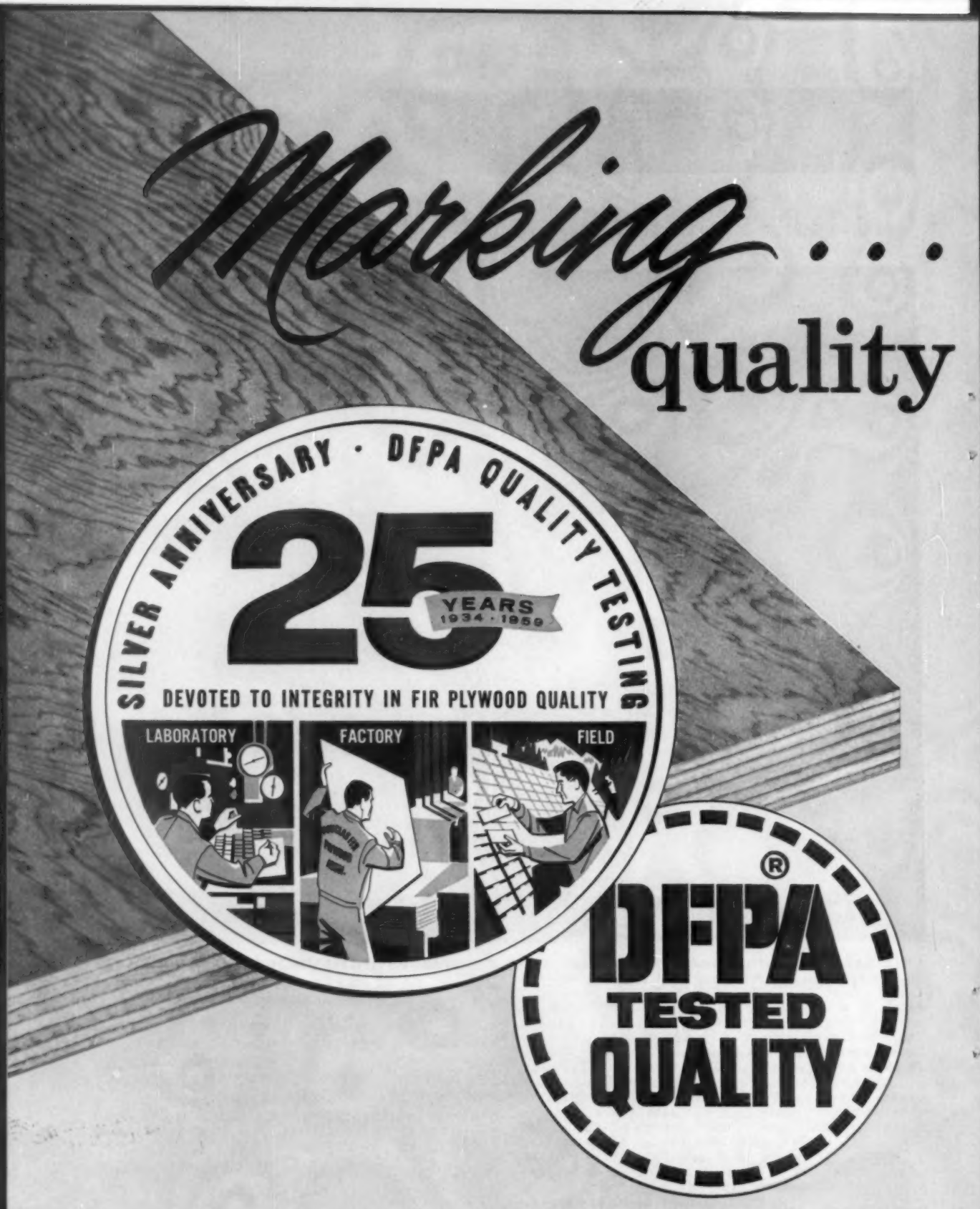
Advantages of CHEVRON* Industrial Grease

- Mixes with any grease
- Melting point, 500° F.+
- High water resistance
- Extreme work stability
- Recommended for high or low-speed bearings.
- Top wear-prevention qualities
- Rust protective
- Non-corrosive
- Pumpable over wide temperature range

For More Information contact your Standard Engineer or Representative, or write Standard Oil Company of California, 225 Bush Street, San Francisco 20, California.

*THE CHEVRON BRAND covers the line of industrial products formerly sold under the Calol name. This is a name change only. The high quality and specifications remain the same.

STANDARD OIL COMPANY OF CALIFORNIA



Only quality plywood is DFPA grade-trademarked. Look for

25 years of testing fir plywood

Since 1934, the Douglas Fir Plywood Association quality control program has served customers and specifiers by providing unbiased, authoritative certification of fir plywood quality.

DFPA GRADE-TRADEMARKS are your assurance that the plywood you buy meets rigid DFPA-Industry standards. CS45-55 establishes *minimum* performance requirements; DFPA specifications are even *more* exacting.

DFPA GRADE-TRADEMARKS mean factory inspection. Over 30 trained DFPA quality supervisors, working with in-plant quality-maintenance specialists, check every factory licensed to use DFPA trademarks. Production is checked at every step, 24 hours a day.

DFPA GRADE-TRADEMARKS are backed by laboratory testing. Thousands of samples are collected daily on a scientifically devised sampling system for accelerated glue line* testing in three strategically located DFPA laboratories.

Test procedure and evaluation are constantly validated by comparison with 20-year performance records of plywood samples on DFPA outdoor exposure test fences.

Quality is never compromised. If the production of any member mill does not meet DFPA standards, DFPA grade-trademarking privileges are withdrawn.

* Only DFPA approved glues may be used in DFPA grade-trademarked fir plywood.

The 107 DFPA member mills produce 90 per cent of all Douglas fir and Western softwood plywood. For your own protection, buy only from reliable manufacturers who give you positive assurance of quality with DFPA grade-trademarks on every panel.

the letters "DFPA" on all plywood you buy, sell or specify.

Redco automatic tray control system, U. S. Plywood Corp., Roseburg, Oregon

*from Fraser Mills to Martell**

Redco Automatic Tray Controls Figure Prominently on the Plywood Production Map

Redco automatic tray systems have been installed by these leading plywood producers:

ARCATA PLYWOOD
Arcata, California (2 units)
BINGEN VENEER
Bingen, Washington
CASCADES PLYWOOD
Reedsport, Oregon
CENTRALIA PLYWOOD
Centralia, Washington
CROWN ZELLERBACH CORP.
Fraser Mills, B. C. (2 units)
ROBERT DOLLAR LUMBER CO.
Glendale, Oregon
DRAIN PLYWOOD
Drain, Oregon (2 units)
DURABLE PLYWOOD
Arcata, California
Calpella, California
FORT VANCOUVER PLYWOOD
Vancouver, Wash.
GEORGIA PACIFIC CORP.
Coos Bay, Oregon (2 units)
Coquille, Oregon
Samoa, California
Toledo, Oregon (2 units)
LINNTON PLYWOOD
Portland, Oregon
DONALD W. LYLE, INC.
Tacoma, Washington
ORLEANS VENEER
Arcata, California
PENINSULA PLYWOOD
Port Angeles, Washington
PORT ORFORD PLYWOOD
Port Orford, Oregon
PUGET SOUND PLYWOOD, INC.
Tacoma, Washington
RODDISCRAFT, INC.
Arcata, California
SANTIAM LUMBER CO.
Sweet Home, Oregon
TIMBER PRODUCTS CO.
Medford, Oregon
U. S. PLYWOOD CORP.
Gold Beach, Oregon
Roseburg, Oregon
Willamina, Oregon (2 units)
WEYERHAEUSER TIMBER CO.
Longview, Washington
WINTON LUMBER CO.
Martell, California

Conspicuously on the map and prominently in the production picture at leading plywood plants from Fraser Mills, B. C. to Martell, California are Redco automatic tray control systems.

Redco engineered control systems operate simply and, yet at the same time, so effectively that the need for a tipple operator is completely eliminated. With automatic tray and tipple functions at the finger tip command of the lathe operator, increased production and improved grade recovery are quickly achieved.

Designed specifically to match the requirements of the plant, Redco tray control systems can be installed on Redco or any other equipment with a minimum of expense and downtime. Savings for the typical plant average over $5,000 per year per shift. Before you invest in automation of any kind, check first with your Redco representative for dependable counsel and prompt quotations on the Redco system pin-pointed to your plant and your production problems.

* FRASER MILLS, B.C., MARTELL, CALIFORNIA

redco

Republic ELECTRIC & DEVELOPMENT CO.

2627 Western Avenue — Seattle 3, Washington

Redco Engineered Equipment for the Forest Products Industry

Memory Systems
Edger Feeds
Set Works Controls
Log Carriage Drives
Remote Edger and Resaw Controls
Log Barker Drives

Our Research Today . . .
for Your Progress Tomorrow

How has American-Marietta researched for profit? Since 1941 costs of manufacturing phenolic resins have risen steeply – raw material costs are up 50%, authorized freight rates are up 120%, and labor costs are up 150%. Yet by increasing product efficiency, broadening product applications, manufacturing in greater volume, and improving packaging methods, we can now deliver exterior phenolic resin to your plants at a lower price than that which prevailed in 1941.

Of even greater significance, since 1941 the average cost of your exterior glue line has been reduced 24%. This lower cost to you is the result of American-Marietta's diligent research and service which has improved the resin as well as the methods of converting it into a reliable, durable adhesive.

AMERICAN-MARIETTA COMPANY

SEATTLE, WASHINGTON • NEWARK, OHIO

ADHESIVES & SYNTHETIC RESINS FOR—

PLYWOOD
COMPOSITION BOARDS
WET STRENGTH PAPER
MINERAL WOOL
FOUNDRY CORES & SHELL MOLDS

The "hidden quality" of Long-Bell Plywood is in the laminations. Hidden from the most practiced eye is sound, firm wood fully up to grade with proven and tested glue line. Herein lies the secret of Long-Bell Plywood's greater uniform strength. This is where "hidden quality" really counts.

There's a Long-Bell Plywood made especially for your job; paneling, sheathing or marine use . . . interior and exterior.

And, even though we think we have the best plywoods ever made, we're constantly working to improve them.

That's why you're years and dollars ahead with Long-Bell Plywood . . . the plywood with "hidden quality".

From 27 Modern Plants—
Long-Bell Supplies These Quality Wood Products:

LUMBER: West Coast Fir, Hemlock and Cedar, Ponderosa Pine, California Douglas and White Fir, Southern Pine and Hardwoods.

OAK FLOORING

MILLWORK & FACTORY PRODUCTS: Douglas Fir and Ponderosa Pine Window and Door Frames, Window Units, Sash and Doors, Glazed Sash, Industrial Cut Stock, Ponderosa Pine Box Shook.

PLYWOOD: Fir, Knotty Idaho White Pine and Ponderosa Pine, Fir Texture 1-11, Birch, Philippine Mahogany, Plyron and other special items.

LONG-BELL FLAKEWOOD®

LONG-BELL VEN-O-WOOD®

PRESERVATIVE TREATED PRODUCTS: Lumber, Plywood, Posts, Poles and Piling pressure treated with Creosote, Pentachlorophenol ("Penta") and Wolman Salts®

KITCHEN CABINETS: Rift Grain Fir and Birch Fronts.

PREFABRICATED TRUSSES AND FRAMING.

WORTHWOOD End Grain Strip FLOORING.
®

it's what you can't see that makes it better . . .

LONG-BELL PLYWOOD

INTERNATIONAL PAPER COMPANY/LONG-BELL DIVISION/KANSAS CITY, MO./LONGVIEW, WASH.

for EXPERIENCE
look to *Mann-Russell*

LEADER in electronic edge-gluing for both veneer and lumber, Mann-Russell flat-plane edge-gluers have long been the accepted standard of the fir plywood industry. The Mann-Russell has the widest use, is most copied by others. Its patented features include interlacing feed, drive and retarding section; differential speeds; V-belt drive and chain in-feed; elongated electrode configurations using the Mann-Russell patented process of "Parallel Bonding." When you buy Mann-Russell you buy experience, originality, and continued interest in your production problems.

and now, the MODEL "B"

Mann-Russell Electronic

Continuous, Flat-Plane

VENEER EDGE-GLUER

Available for fast delivery . . . the Model "B", incorporating original firsts of the Model "A", as well as new features. It's a top quality unit with design based on years of close contact with mill requirements.

Outstanding features of the improved Model "B" include new electrode configurations, incorporating the latest Mann-Russell patented heat retention non-arcing electrode structure; slightly wider carrier belt spacing; latest and most efficient construction and speed control details. It is adapted primarily for veneers 1/10th inch and thicker, and it is priced slightly lower than the universal Model "A" which is designed to accept thinner veneers.

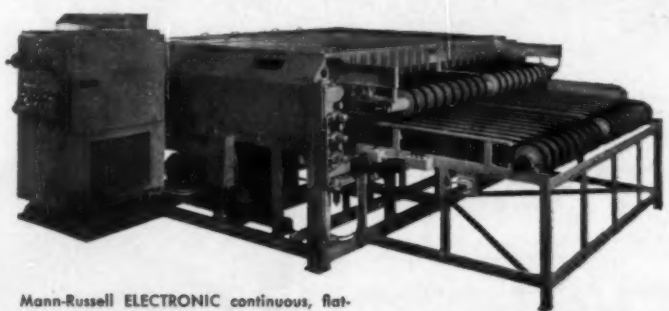
EXISTING MODELS MAY BE MODERNIZED

Conversion kits for older models are available. These low budget kits permit all Mann-Russell equipment to be modernized; to employ the latest developments in edge-gluing technology, to minimize radiation and arcing, to increase reject-free output.

INVESTIGATE THE NEW MANN-RUSSELL MOISTURE DETECTOR . . .
Efficient—reasonably priced!

MANN-RUSSELL ELECTRONICS

South 23rd and Pacific Ave., Tacoma 2, Washington • FUlton 3-1593



Mann-Russell ELECTRONIC continuous, flat-plane veneer edge-gluer. Manufactured in any size, from 50" to 130" stock length. Patented and patents pending.

Model "A," All thicknesses
Model "B," 1/10th inch and thicker

LEADING NAMES
in the plywood industry rely on
MANN-RUSSELL ELECTRONIC
VENEER EDGE-GLUER

Anacortes Veneer, Inc.
Anacortes, Wash.

Arcata Plywood Corp.
Arcata, Calif.

Astoria Plywood Corp.
Astoria, Ore.

Bate Lumber Co.
Merlin, Ore.

B. C. Forest Products, Ltd.
Victoria, B. C.

Bohemia Lumber Co.
Culp Creek, Ore.

Bradley Plywood Corp.
Savannah, Ga.

Brookings Plywood Corp.
Brookings, Ore.

Canadian Forest Products, Ltd.
New Westminster, B. C.

Cascades Plywood Corp.
Lebanon, Ore.

Commonwealth-New Guinea Timbers, Ltd.
Bololo, New Guinea

Diamond Lumber Co.
Tillamook, Ore.

Douglas Fir Plywood Co.
Bandon and Coquille, Ore.

Dwyer Lumber Co.
Portland, Ore.

Findlay Millar Timber Co.
Phillipine Islands

Harbor Plywood Corp.
Aberdeen, Wash.

Jefferson Plywood Co.
Madras, Ore.

MacMillan & Bloedel, Ltd.
Alberni Plywood Div.
Port Alberni, B. C.

MacMillan & Bloedel, Ltd.
Vancouver Plywood Div.
Vancouver, B. C.

Mutual Plywood Corp.
Eureka, Calif.

Nickey Brothers, Inc.
Memphis, Tenn.

Northern California Plywood Co.
Crescent City, Calif.

Roseburg Lumber Co.
Dillard, Ore.

Simpson Redwood Co.
Eureka Plywood Div.
Eureka, Calif.

Simpson Logging Co.
Lyons Plywood Div.
Lyons, Ore.

Simpson Logging Co.
Portland Plywood Div.
Portland, Ore.

Sooke Lake Lumber, Ltd.
Victoria, B. C.

Southern Oregon Plywood Corp.
Grants Pass, Ore.

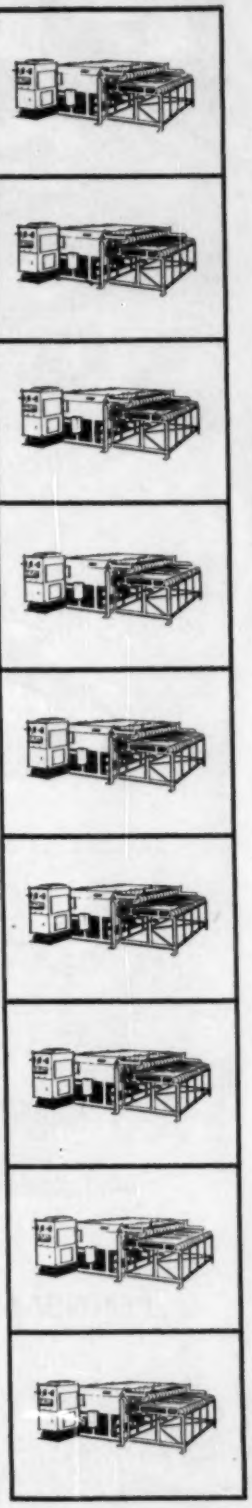
Veneer Products Co.
Medford, Ore.

Western Plywood Co., Ltd.
Vancouver, B. C.

Western Veneer & Plywood Co.
Lebanon, Ore.

Weyerhaeuser Timber Co.
Springfield, Ore.

Weyerhaeuser Timber Co.
Longview, Wash.



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Quality Controlled Products for the Plywood and Wood Products Industries

Uniform quality

CAUSTIC SODA

For uniform plywood glue bond.
Flake, Crystal, Powder, Liquid.

PENITE 6X and PENITE 35

Special arsenite formulation for weed control and chemical debarking.

CALL PENNSALT TECHNICAL SERVICE TO EXPLAIN THE ADVANTAGES IN USING LIQUID CAUSTIC SODA.

PENNSALT OF WASHINGTON DIVISION

PENNSALT CHEMICALS CORPORATION

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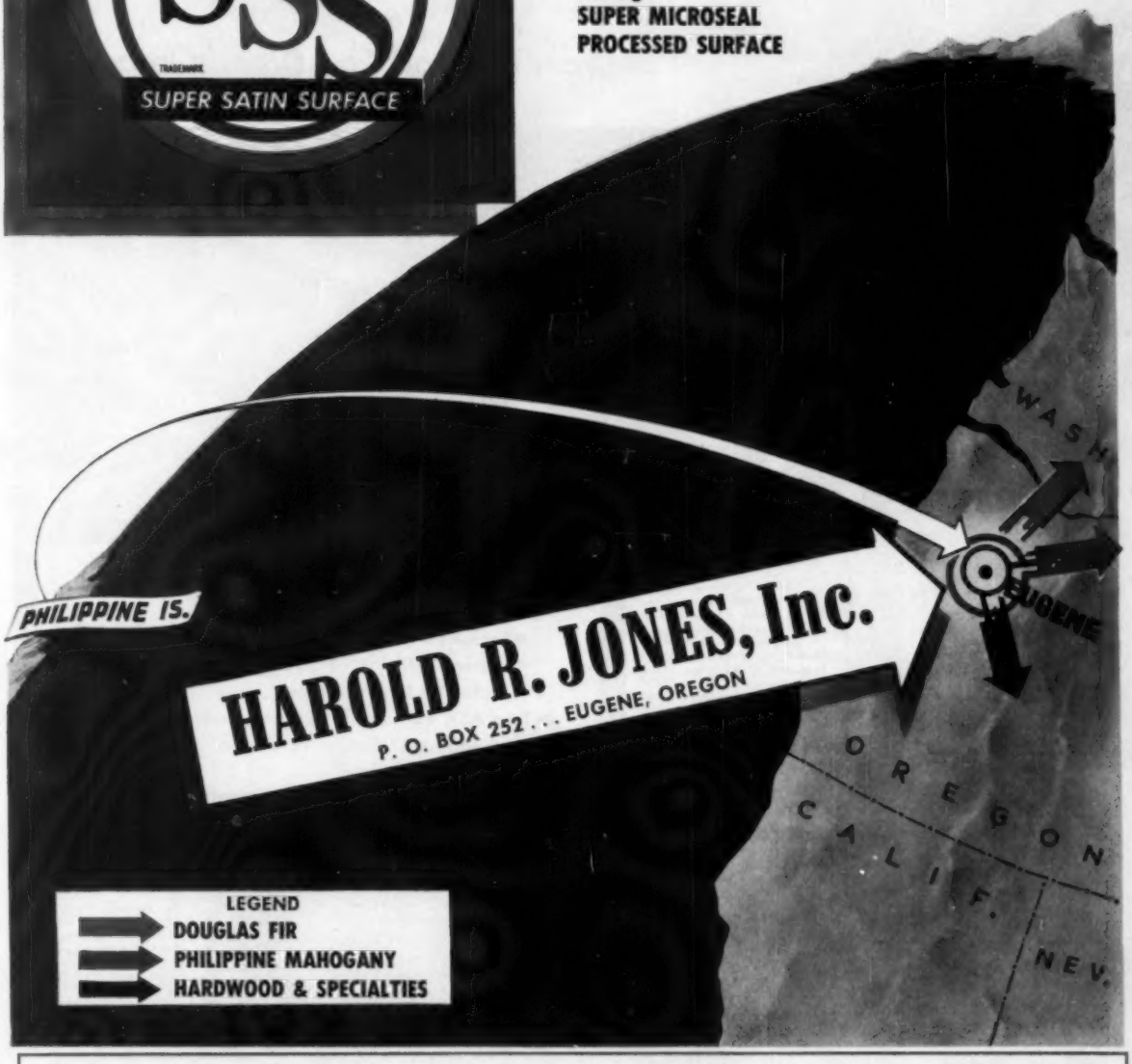
Pennsalt Chemicals
ESTABLISHED 1850

SSS
TRADEMARK
SUPER SATIN SURFACE

NEWEST in PLYWOOD

Remember this Label
It appears on all wood products having a SUPER MICROSEAL PROCESSED SURFACE



DOUGLAS FIR . . . . ●
INTERIOR AND EXTERIOR . . . ALL THICKNESSES
"V" GROOVED PANELS . . . EQUAL OR RANDOM
SUPER MICROSEAL PROCESSED PANELS
DFPA GRADE STAMPED

PHILIPPINE MAHOGANY . . . . ●
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"V" GROOVED PANELS . . . EQUAL OR RANDOM
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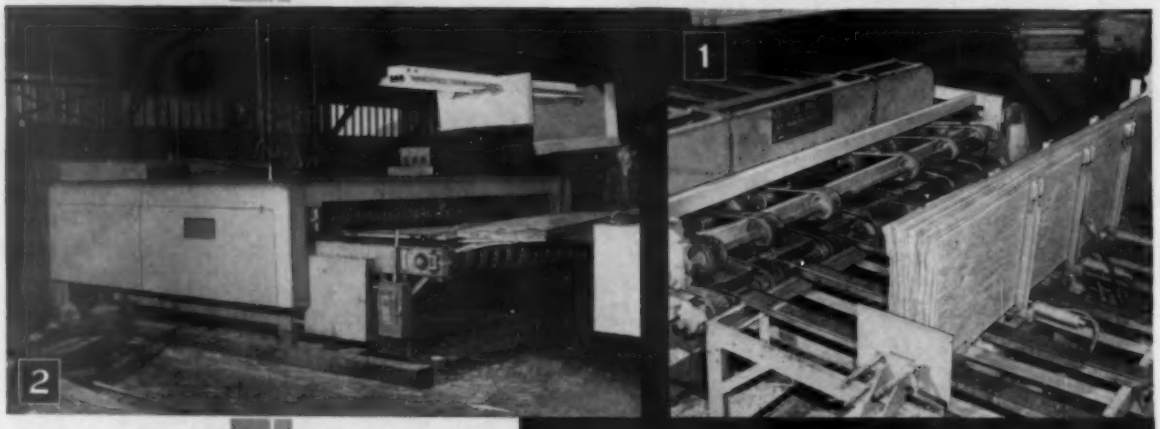
HARDWOOD & SPECIALTIES ●
STRIATED TEXTURE 1-11 PANELS
BRUSHED TEXTURE 1-11 PANELS
REGULAR TEXTURE 1-11 PANELS
COMPLETE LINE HARDWOODS - SUPER MICROSEAL PROCESSED

* Trademarks "Super Satin Surface" and "Triple S" or "SSS"—Use licensed on products having a Super-sealed or Super Microsealed surface that satisfies the quality standards of the trademark owner.

KEY Prentice machines help control Veneer Quality and Boost Production

at Drain Plywood Co., Drain, Oregon



1 Veneer is brought by lift-truck from the dryer to the Victor Edge-Gluing System. This view shows the One-Man Handling System and the infeed side of the Victor Straight-Line Jointer. The Shaker is shaking a package of veneer preliminary to its pass through the Jointer. One of the greatest features of the system is that the operator is in complete control of the veneer at all times. This practically eliminates defective joints at the jointer. It also permits the use of random width veneers, eliminating any need for pre-sorting veneer prior to jointing.

2 The Victor 10-ft. High Frequency Edge-Gluer at Drain Plywood Co. A typical 3-shift (24-hour) production on this Victor Edge-Gluing System is 960 inches or more of 32" x 8' veneer sheets, ranging from 1/10" to 3/16" thick. Note Victor Clipper on out-feed side of Edge-Gluer.

- **Victor Complete Edge-Gluing System.**
  - **One-Man Handling System.**
  - **Victor 10-ft. Straight-Line Jointer.**
  - **Victor 10-ft. High Frequency Edge-Gluer.**
  - **Victor 10-ft. Dry Clipper.**
- **Two ASA Raimann Automatic Veneer Patchers.**
- **One Raimann "Super" Patcher with 6-inch Dies.**

This Raimann "Super" Patcher (equipped with Victor Semi-Automatic Patch-Strip Loader), used for patching centers, makes 6-inch, giant-size dogbone patches. This machine and two standard Raimann Patchers produce enough to handle adequately the plant production requirements.

Let us explain to you how Prentice quality equipment can help solve production problems in your plant. *Write* or *Phone*—there is no obligation.

E. V. PRENTICE CO.
2303 N. RANDOLPH ST. • PORTLAND 17, OREGON

PHONE ATLANTIC 2-3262
E. V. PRENTICE COMPANY, LTD.
5936 FRASER ST., VANCOUVER 15, B. C.
Elgin 5212

Throughout the Pacific Northwest, veneer and plywood plant operators are quickly grasping the significant fact that Victor Edge-Gluing Systems, Raimann Patchers, and other Prentice equipment, have the built-in quality and stamina to insure maximum production and best quality of the finished plywood. Prentice equipment is backed by more than 40 years of experience supplying quality machinery to the industry.

Everything but the whispering of the leaves...

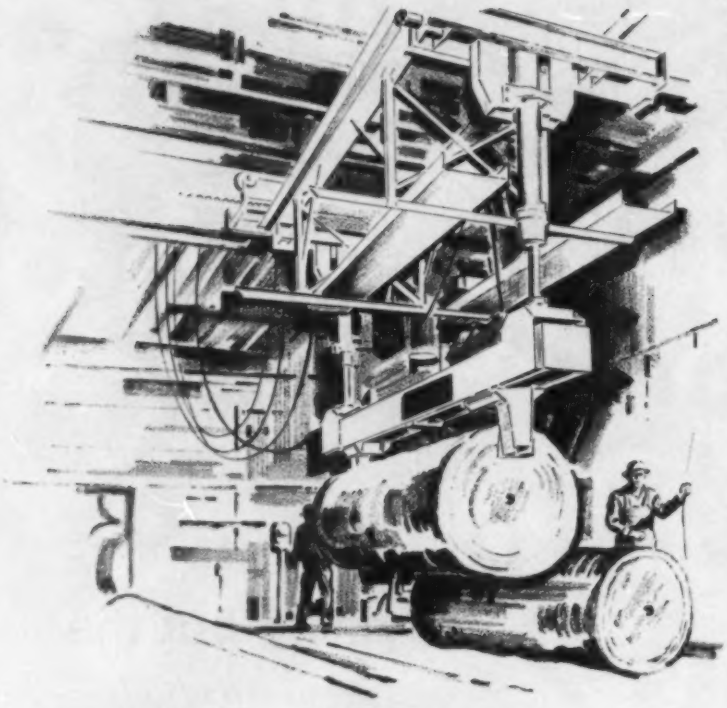
At Brewster, N. Y., is a newly opened building housing laboratories, a scientific library, and extensive facilities for testing wood and wood products. Called the Lawrence Ottinger Research Center, it is a recent addition to United States Plywood Corporation's multimillion dollar investment in creating new products for the American people and new markets for the entire wood industry. It is also the latest step in nearly 40 years of United States Plywood Corporation research and development dedicated to making our nation's timber resources good to the last chip—of utilizing "everything but the whispering of the leaves."

Over the years, the fruits of United States Plywood's development work have taken many forms . . . adhesives which have virtually eliminated delamination as a factor in plywood . . . products such as Novoply®—a wood-plastic laminate which utilizes previously unused material . . . Duraply®—with a resin-cellulose overlay which makes possible the use of second and third growth timber in marketable plywood with a superior painting surface . . . face treatments which have given fir plywood greater sales appeal and widened its markets, in products like Weldtex® and Surfwood® . . . and finishing methods which have stimulated the tremendous popularity of prefinished hardwoods. These are but a few results of research which has contributed to the health and growth of our industry and economy.

To us, America's forests whisper new challenges every day—challenges that are opportunities to grow, as our industry grows, with the nation.

UNITED STATES PLYWOOD CORPORATION

115 branch showrooms in United States and Canada



Saves lathe chucking time on every peeler

The EDERER OVERHEAD LATHE CHARGER is "job-engineered" to pick up a peeler—pre-center it to lathe chucks—and move it forward to exact chucking position. In a five-hour, clocked operation, average chucking time was only 18 seconds after peeler knife was retracted! In this same five-hour period, the charger handled 75 102-inch long peelers of average 36-inch diameter.

Equally efficient is the floor-mounted lathe charger, designed for use where overhead clearance is restricted.

Both overhead and floor-mounted chargers are hydraulically operated from one set of controls, located for the operator's convenience. With the two models to choose from, you can have a charger to fit your exact plant requirements. Either charger can be supplied in a simpler adaptation to load your barker, too.

Inquire about our complete line of overhead cranes. Write for industrial crane catalog, Bulletin CR-610 (revised).

Write for EDERER Lathe Charger Bulletin V-106.

EDERER *Plywood* **EQUIPMENT**

349V58

EDERER ENGINEERING COMPANY
2933 FIRST AVENUE SOUTH • SEATTLE 4, WASHINGTON
EXPORT DIVISION: 301 Clay Street, San Francisco 11, California

Since 1901 — "JOB-ENGINEERING" CRANES AND HEAVY EQUIPMENT

Northwest Phenol Plant Planned by Reichhold

In 1959, Reichhold Chemicals, Inc., will begin construction of a multi-million dollar phenol plant in Tacoma, Wash., announces E. M. Skytta, vice president and general manager of the company's Pacific northwest division. Production will eventually reach 60,000,000 pounds. The new facility will combine with RCI's existing plant in Tuscaloosa, Ala., with its capacity of 70,000,000 pounds.

The Tacoma unit will employ the sulfonation process. Tacoma was chosen because of its shipping facilities, nearness to raw materials and its rapidly expanding market for both phenol and the sulfite by-products of phenol.

Phenol is used principally in the manufacture of phenolic resin adhesives, and in the field of hardboard and particle board, plastic overlays for wood products, surface coatings, wood impregnation, plastic molding compounds, wood preservatives, herbicides, paper treatment and many fields.

Sodium sulfite, the principal by-product of the scheduled plant, is expected to find a ready outlet in the paper industry of the Pacific Northwest. Up to now this industry has been dependent upon other sections of the country for this material.

RCI will also add new research and development facilities which will develop new uses for phenol and other company made products as well as provide customers with know-how and service in the use of their products.

The project is expected to be completed by late 1960.

●

Natural Gas Cuts Overtime at Plant

Farwest Plywood, a co-op in Tacoma, Wash., had the first commercial contract for natural gas in the city of Tacoma. How has their natural gas dryer worked out after two years? The company reports that it has given them the flexibility they need and that overtime has been cut to a minimum.

Drying of re-dry stock can begin within 20 minutes after starting up the dryer. Also, with cottonwood an excellent drying job is possible with the natural gas without the splits found in some other drying methods. Dryer cleaning can be carried out in six hours. Farwest cautions against getting the dryer gases too hot, since breakdown of the wood occurs at the extreme temperatures.

●

• Two sander panel feeders and a dryer feeder are planned at Brookings Plywood Corp., Brookings, Ore.

8-Foot Wide Panel Now Available

An eight-foot wide fir plywood panel which opens up dozens of new application possibilities in the construction, marine, and industrial fields has been developed by the Diamond Lumber Co., of Portland, Ore. Noting the increased demand for a wide panel, Diamond spent over a year in perfecting a special scarf-joint for the eight-footer.

The panels are available in thicknesses up to one inch, and in almost any length. They have a unique potential for wall and roof sections in prefabricated houses; industrial roof decks; large pallets; crates; concrete forms; railway car linings; truck van walls and floors; barges; pontoons; and mobile home floors. Diamond can ship all Jumbo panels primed and edge sealed or painted.

●

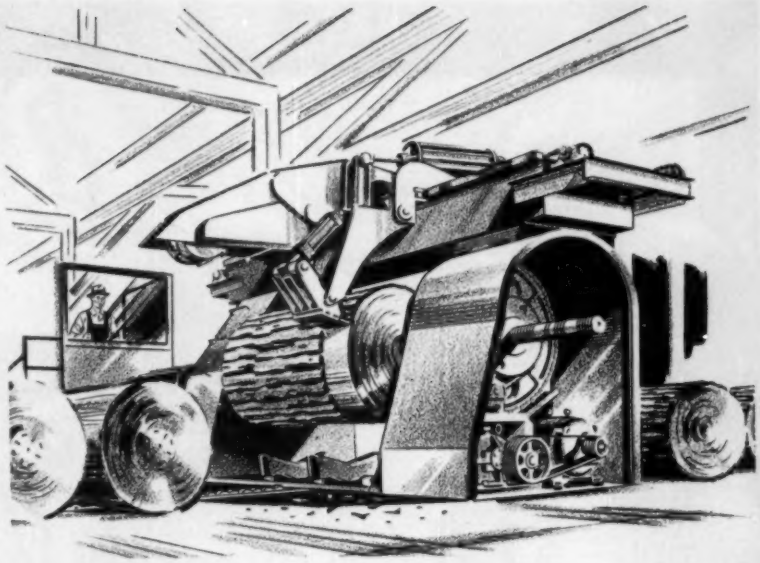
Changes at California Plant to Boost Output

Sam Arness, recently named manager at the Calpella, Calif., plant of the Durable Fir Lumber & Plywood Co., has initiated several changes in the plant operation.

A truck delivery area has been surfaced adjacent to the plant, eliminating need for green veneer to be carted through the plant. A Globe traveling head jointer has been installed.

Some machinery has been re-arranged on the plant floor. An automatic tipple has been added at the lathe. Mr. Arness, with Mitchell Wigner, is a partner in the Hoopa Veneer Co., Hoopa, Calif. Harold Ranta, recently with the Hoopa operation, now is handling production at the Calpella plant.

EDERER overhead lathe charger was recent addition at Timber Products Div., Cyprus Mines, Inc., Medford, Ore. Unit is used with Merritt-Solem 84x110-inch lathe. Formerly overhead crane was used.



Saves barking time on every peeler

The EDERER OVERHEAD BARKER is "job-engineered" to permit straight-line conveyor chain movement of peelers through completely clear floor area beneath machine. Peelers move up—are chucked—barked—move on through to lathe. Complete cycle, with average 36-inch diameter peeler, takes approximately 45 seconds!

Scraper removes ONLY the bark, assuring the most veneer from every peeler; handles peelers of almost any shape or contour. Rosser head routs off burls and unusable wood. The machine handles peelers from 110-inch to a minimum 12-inch diameter; can be built to handle peelers up to 135 inches long.

The barker is operated from one set of controls located wherever is convenient for operator. Conveyor chain control may be in same control station.

Floor-mounted barker is also available. Write for full information about both models.

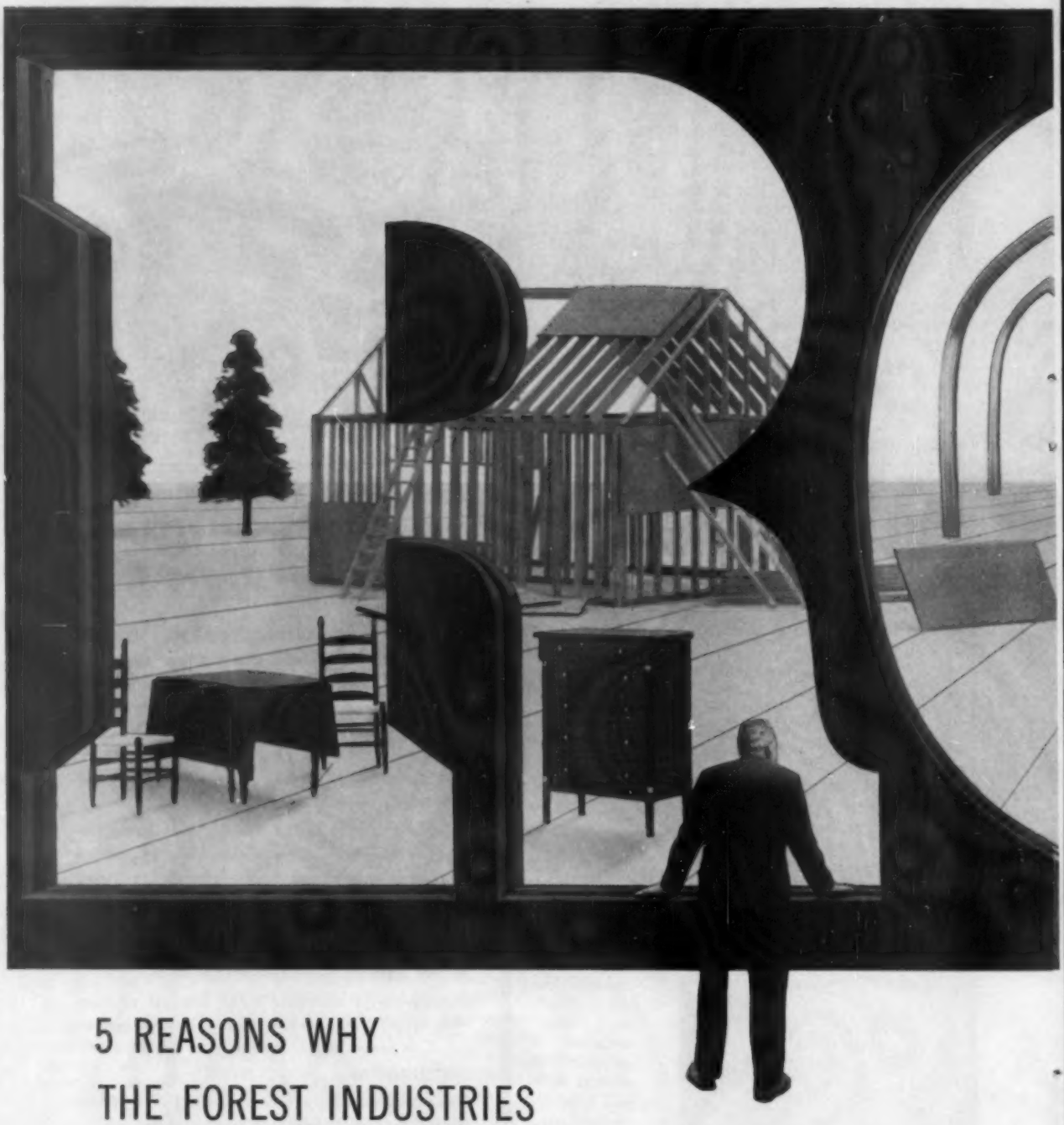
Inquire about our complete line of overhead cranes. Write for industrial crane catalog, Bulletin CR-610 (revised).

EDERER *Plywood*
EQUIPMENT

350V58

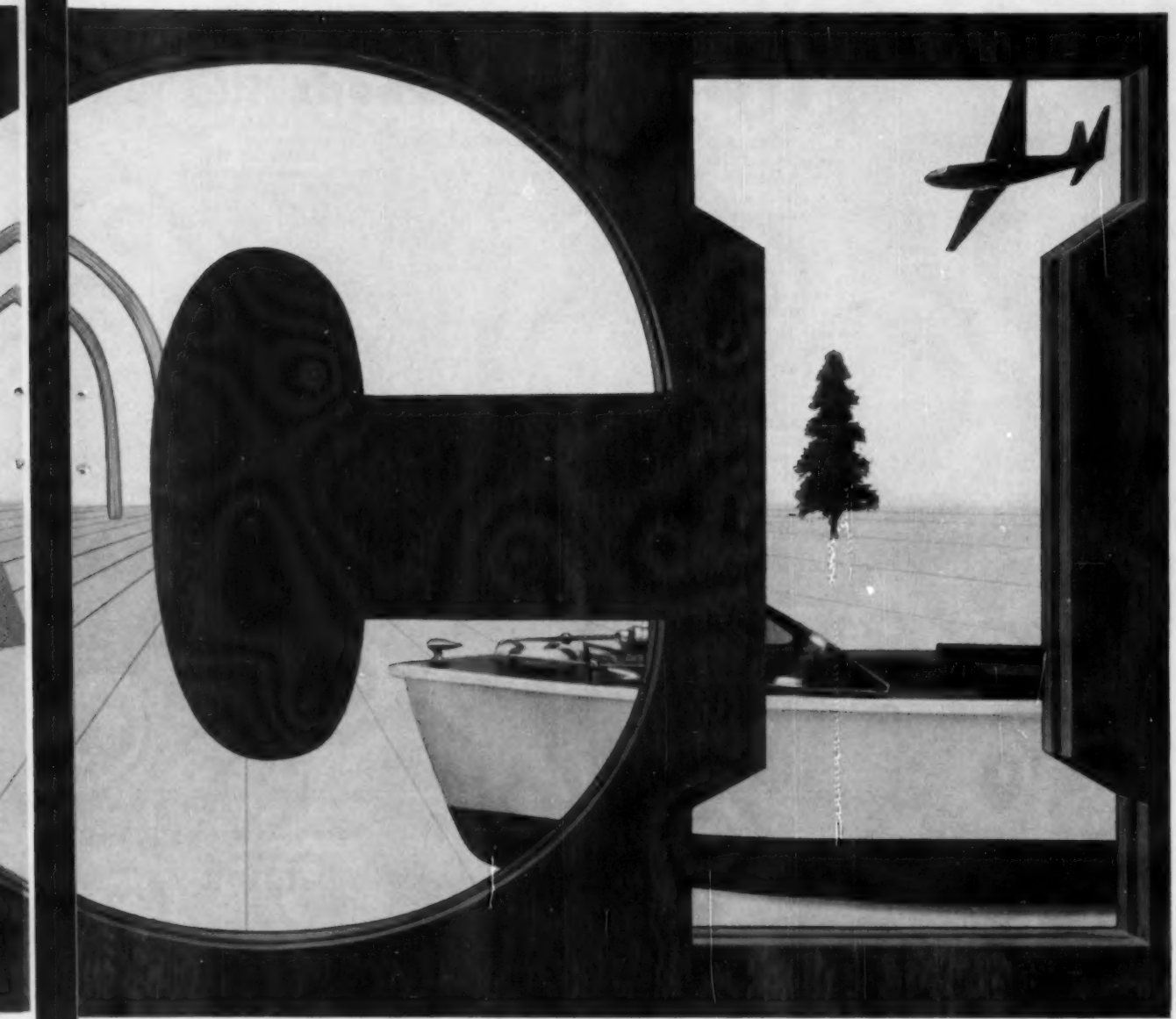
EDERER ENGINEERING COMPANY
2933 FIRST AVENUE SOUTH • SEATTLE 4, WASHINGTON
EXPORT DIVISION: 301 Clay Street, San Francisco 11, California

Since 1901 — "JOB-ENGINEERING" CRANES AND HEAVY EQUIPMENT



5 REASONS WHY
THE FOREST INDUSTRIES

LOOK TO RCI FOR QUALITY ADHESIVES



Production is *more profitable* when you use *dependable* bonding agents . . . *more efficient* when you get fast, on-time delivery of the adhesives you need to meet plant schedules. That's why more and more manufacturers of forest products are finding it good business to do business with RCI. You, too, can share these benefits:

35 YEARS EXPERIENCE – RCI's long record of reliability is your assurance of quality – in products and in service.

UNIFORM QUALITY – Reichhold manufactures basic chemical materials as well as finished adhesives, guaranteeing quality control throughout production.

COMPLETE LINE AVAILABLE – RCI has fast-curing adhesive materials for every wood bonding application . . . urea-formaldehyde, phenol-formaldehyde, resorcinol and PVAc resins, soybean and casein glues.

FAST DELIVERIES – Reichhold plants across the nation enable RCI to make deliveries *when needed.*

TECHNICAL SERVICE – RCI's network of field offices is always available to help you with any technical information you may require.

Creative Chemistry . . .
Your Partner
in Progress

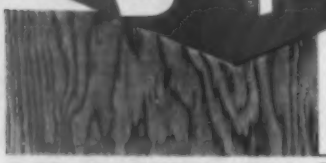
RCI

REICHHOLD

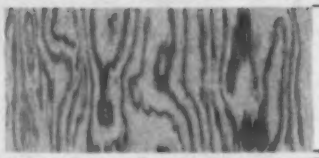
REICHHOLD CHEMICALS, INC., RCI BUILDING, WHITE PLAINS, N.Y.

Synthetic Resins • Chemical Colors • Industrial Adhesives • Phenol • Hydrochloric Acid • Formaldehyde • Glycerine • Phthalic Anhydride • Maleic Anhydride
Pentachlorophenol • Sodium Pentachlorophenate • Sulfuric Acid • Methanol • Sebacic Acid • Ortho-Phenylphenol • Sodium Sulfite • Pentaerythritol

Simpson specialty plywoods



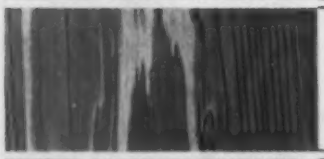
FIGURED GRAIN REDWOOD
Available in Natural or Planked Exterior



DOUGLAS FIR
Available in Natural, or Planked Interior & Exterior
Exterior Texture 1-11, Boat Hull & Jumbo Panels

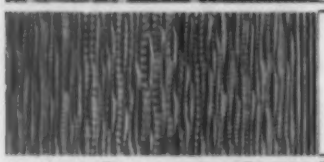
RIFT GRAIN REDWOOD
Available in Natural or Planked Exterior

RIFT GRAIN FIR
Available in Natural or Planked Interior & Exterior

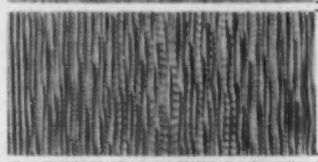


REDWOOD SHADOWOOD
Available in Natural or Planked Exterior

FIR SHADOWOOD
Available in Natural or Planked Interior & Exterior

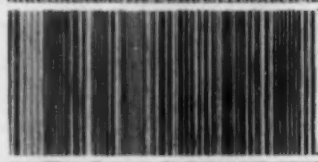


REDWOOD PLYWEAVE
Available in Natural only Exterior



FIR PLYWEAVE
Available in Natural only Interior & Exterior

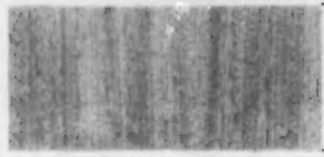
REDWOOD RUSTICWOOD
⅛" x ¼" Channels 4" O.C. Exterior



FIR STRIATED
Available in Natural only Interior & Exterior

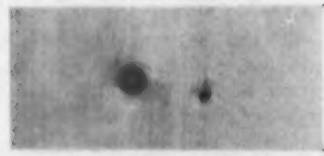
FIGURED GRAIN PHILIPPINE MAHOGANY
Available in Natural or Planked Interior

OAK (HALF ROUND)
Available in Natural only Interior



RIBBON GRAIN PHILIPPINE MAHOGANY
Available in Natural or Planked Interior

PLYRON (Hardboard Faced Plywood)
Available in Standard Interior & Exterior and Tempered Exterior



KNOTTY PINE
Available in Natural or Planked Interior

OVERLAID FIR PLYWOOD
(High Density)
Exterior

BIRCH
Available in Natural or Planked Interior

OVERLAID FIR PLYWOOD
(Medium Density)
Exterior

Order these specialties from your jobber today!

Simpson

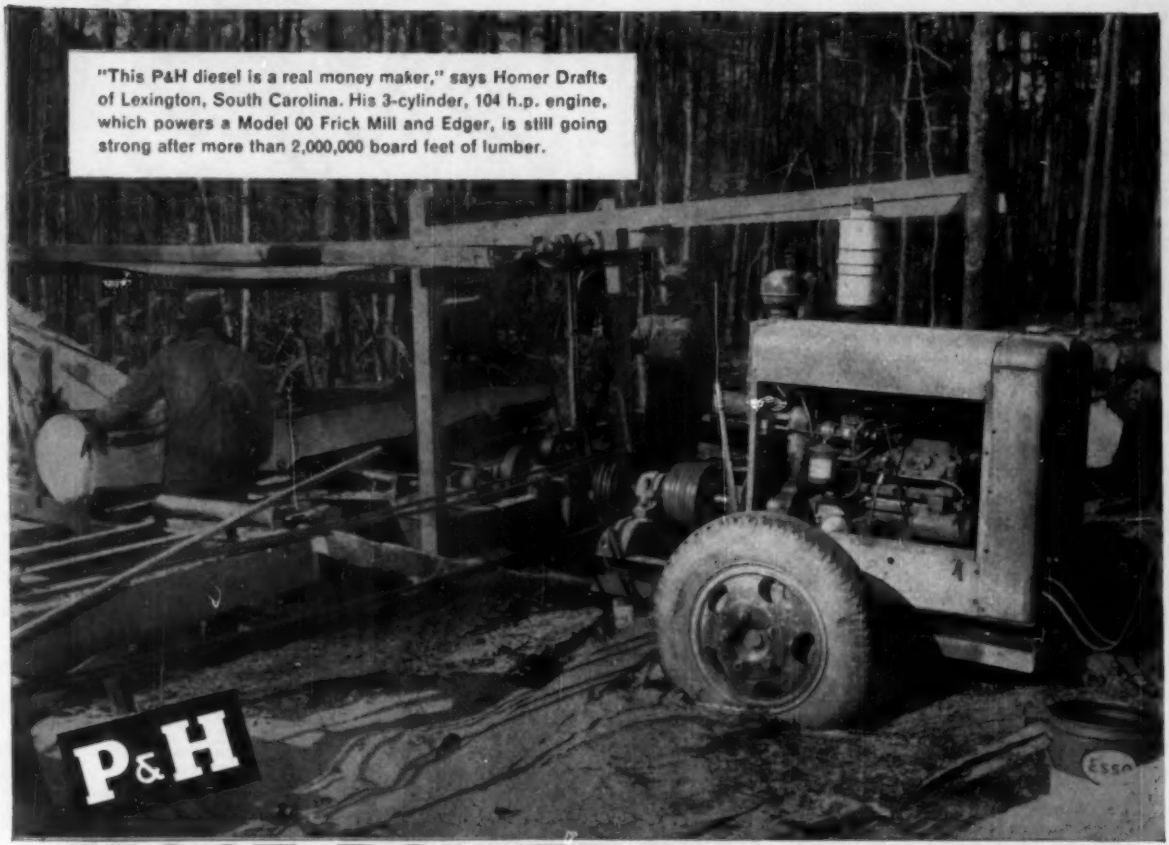
PD 815

SIMPSON LOGGING COMPANY

SALES OFFICE, PLYWOOD AND DOOR PRODUCTS: 2301 N. COLUMBIA BLVD., PORTLAND 17, OREGON

REGIONAL SALES OFFICES IN NEW YORK, CLEVELAND, CHICAGO, MINNEAPOLIS, MEMPHIS, DALLAS, DENVER, LOS ANGELES, PORTLAND, SEATTLE

GENERAL OFFICES IN SHELTON, WASHINGTON


"This P&H diesel is a real money maker," says Homer Drafts of Lexington, South Carolina. His 3-cylinder, 104 h.p. engine, which powers a Model 00 Frick Mill and Edger, is still going strong after more than 2,000,000 board feet of lumber.
P&H

MOST POWERFUL DIESELS

pound for pound... dollar for dollar!

High-torque P&H diesels have the power to drive blades through toughest timber — knots and all — without missing a beat! Yet they're actually up to 1000 pounds lighter than comparable engines for easier moving, faster set-up.

And what economy! Operators report that the 3-cylinder P&H diesel uses less than 20 gallons of low cost No. 2 fuel in 8 hours of steady running.

You can't beat 'em for easy maintenance, either. They have 25% fewer parts. Complete interchangeability of all wearing parts. "Unitized" P&H power assemblies are replaceable as single, easy-to-handle units in less than an hour!

Any way you look at it, P&H diesels can be counted on to set new records for production, operating and maintenance economy. Make it a point to see them at your P&H distributor soon. Or write for complete information, Dept.414B, Harnischfeger Corporation, Milwaukee 46, Wisconsin.

HARNISCHFEGER
P&H DIESEL ENGINE DIVISION
Crystal Lake, Illinois

Fastest Growing Name in Diesel Power

APEX MARINE EQUIPMENT, INC.
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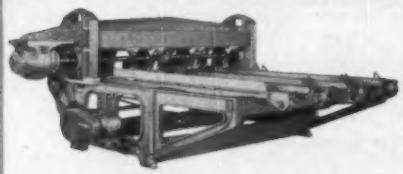
Got a production problem? Costs too high? Eliminate wasted motions and material. Investigate Mereen-Johnson's complete line of commercial woodworking machines—profit-engineered to perform your most complicated operations with smooth speed and micrometric accuracy.

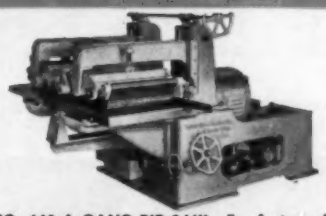
In plants of all sizes from coast to coast you'll find M-J machines producing profitably, doing better work—faster! A word from you will bring detailed, illustrated bulletins from Mereen-Johnson, your headquarters for *"Profit-Engineered Products For Woodworking."* Write us right away!

for wood

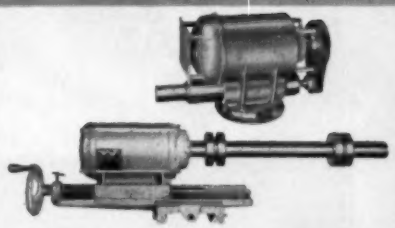
MEREEN-JOHNSON WOODWORKING MACHINERY



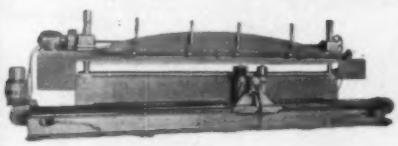
NO. 435-H MULTIPLE CUT-OFF SAW—Cuts long boards into short pieces . . . will square-cut large size sheets . . . and will cut any number of grooves. Excellent for sizing plywood. *Described in Bulletin No. 435-H.*



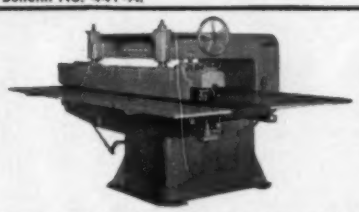
NO. 441-A GANG RIP SAW—For fast production on difficult gang ripping jobs. Eight power driven feed rolls . . . 12", 19", or 24" saw space. Up to 150 HP. Variable feed drive up to 300 ft. per minute. Glue joint accuracy. *Described in Bulletin No. 441-A.*



SAW MOTORS—Motors for special applications 3600 RPM or patented offset high speed spindle as illustrated. Unusual shaft extensions open or TEFC 1 to 25 HP. Also mounting slides, etc.



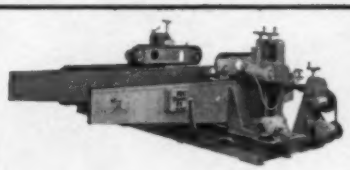
VENEER JOINTER—Traveling head principle eliminates shifting. Perfectly joints bundles of veneer up to four inches thick. Sizes from 90" to 212". *Described in Jointer Bulletin.*



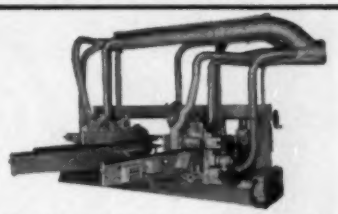
VENEER SPLICER—Makes precision tapeless joints. Adjusts automatically for varying thickness of veneer normally fed through machine. Welded steel frame with 49" throat clearance at right. *Described in Bulletin No. 50.*

NO. 477 CUT-OFF SAW—Capacity equals two or three swing, straight line or roller carriage cut-off saws—depending on type and condition of stock used. An excellent machine for box work. *Described in Bulletin No. 477.*

NO. 442-MT COMBINATION SAW—A versatile machine for ripping, cross-cutting, grooving, dadoing, beveling and mitering. Cuts up to 48" wide and rips up to 50" wide. Handles large stock easily. *Described in Bulletin No. 442-MT.*



NO. 600 DOUBLE CUT-OFF SAW—Accurate production at high rates of feed. Labor saving attachments such as cope motors, dado arbors and other equipment are available for specific needs. Larger sizes available. *Described in Bulletin No. 600.*



NO. 400 DOUBLE-END TENONER—Sizes up to 20' to fit your requirements. Will square-cut up to 96" ahead of trim saws. Numerous accessories are available to multiply its usefulness. *Described in Bulletin No. 400.*

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Mereen-Johnson **MACHINE CO.**

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Please send bulletin number _____

Firm Name: _____

Address: _____

_____

Your Name: _____

NO. 326 MATCHER-JOINTER—For sash and door, furniture and box factories—as well as for many special uses. Adaptable for jointing hogshead staves. Unequaled for "T" and "G" work. *Described in Bulletin No. 326.*

Products For Woodworking." Write us right away!

Inventory costs cut...*profits up* with Ⓕ Mixed Carload Shipments

Mixed car orders keep your inventories low and flexible, cutting inventory overhead and storage costs to a minimum. This not only frees your cash for profitable use – it also means you can offer customers fast service on special items. Your wholesaler will be glad to assist you in making up a mixed car of "Circle F" lumber and shingle products to suit your specific requirements. Your order will be loaded at the Fraser Mills plant of Canadian Western Lumber Company, and shipped directly to you. Results: inventory low, turnover high, service excellent, profits up!

Include any or all of these popular lines:

- **Pacific Coast Lumber Products** *Douglas Fir, Western Red Cedar, West Coast Hemlock, Idaho White Pine*
- **Green or Kiln Dried Construction Grades & Sizes**
- **Kiln Dried Finish**
- **Pattern Clears (K.D.)** *Flooring, Siding, Panelling and Trim*
- **Roof Decking**
- **Certigrade Western Red Cedar Shingles**
- **Prefits (Squared & Rebutted Sidewall Shingles)**

CANADIAN WESTERN LUMBER COMPANY, LIMITED

FRASER MILLS, BRITISH COLUMBIA

A DIVISION OF **CROWN ZELLERBACH CANADA** *LIMITED*

"Circle F" mixed carload shipments are available from your local wholesaler

Or write Canadian Western Lumber Company Limited for the "Circle F" wholesaler in your territory.

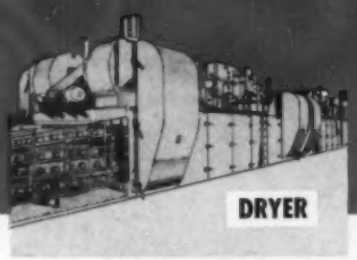
Your Name:_____

Head staves. Unequaled for "I" and "G" work. *Described in Bulletin No. 326.*

Eliminate Expensive Downtime!
...Install GRAPHALLOY BUSHINGS!

NORMAL LIFE 5 to 10 YEARS!

Self-lubricating! Contain no oil! Require no attention!



DRYER

REFUSE BURNER

OPERATE DRY to Temperatures of 750°F. in AIR

(Higher temperatures in inert atmospheres)

GRAPHALLOY BUSHINGS cut maintenance costs these many ways: Have long life • Require no attention • Operate where oil or grease lubrication cannot be used Avoid downtime • Operate submerged in water and most acids • Unaffected by low temperatures • Do not soften . . . withstand high temperature (750°F.) as in dryers, ovens, refuse burner conveyors, and in rotary steam joints.

SOME CASE HISTORIES:

BOARD DRYERS—Copper-GRAPHALLOY General Purpose Hanger Assembly 354-1 was designed especially for roller-type board dryers. Copper-GRAPHALLOY is used primarily because of its long life . . . eliminating shut-downs for greasing and maintenance. Astonishing savings in avoiding loss of production have resulted from the installation of these self-aligning hanger assemblies in place of ball bearings since Copper-GRAPHALLOY Bushings have a normal life in this service of *five to ten years* without replacement. See our Data Sheet 354.

VENEER DRYERS — Copper-GRAPHALLOY Bushing Assembly 448, which is self-aligning, was designed especially for the usual veneer dryer bearing. It replaces the present grease-lubricated roller . . . *and eliminates shut-downs for greasing.* These Copper-GRAPHALLOY Bushings have run continuously *24 hours per day seven days per week for ten years without any downtime.* See our D.S. 448.

REFUSE BURNERS — Copper-GRAPHALLOY Bushings, for refuse burner conveyor bearings and pillow blocks at the hot end of the conveyor, have been in operation *five to seven years* without replacement and without attention. See our D.S. 478.

Use GRAPHALLOY BUSHINGS for TROUBLE-FREE OPERATION In

DRYERS (Particle, hard, insulation or paper board dryers) • PLYWOOD DRYERS • GLUERS • VENEER DRYERS • KILNS • KILN CARS • IMPREGNATING KILNS • PATCHERS • HOT PRESSES • REFUSE BURNER CONVEYORS • CHAIN IDLERS • SUBMERGED BUSHINGS IN LOG HAULS.

GRAPHALLOY

For full information write, Graphite Metallizing Corporation 1075 Nepperhan Avenue Yonkers, New York

USE OUR 44 YEARS OF BEARING EXPERIENCE!

GRAPHITE METALLIZING CORPORATION
1075 Nepperhan Avenue • Yonkers, New York

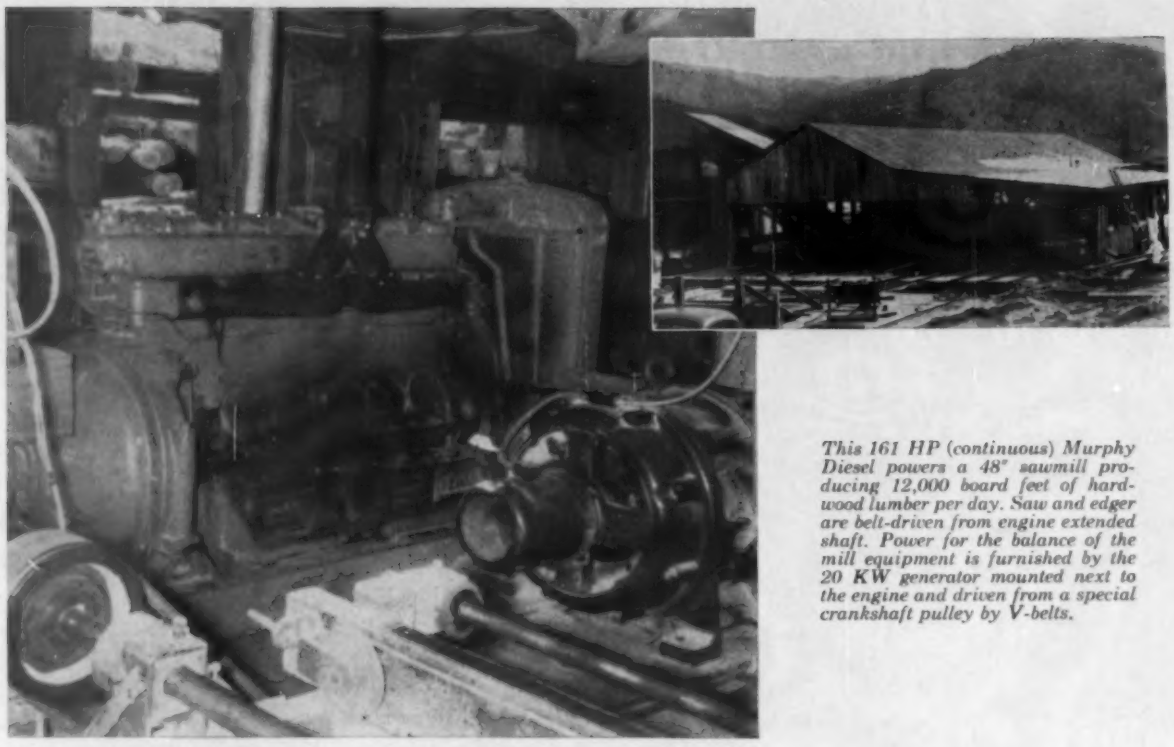
Please send me descriptive literature and Bushing Inquiry Form 107A.

NAME AND TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____



This 161 HP (continuous) Murphy Diesel powers a 48" sawmill producing 12,000 board feet of hardwood lumber per day. Saw and edger are belt-driven from engine extended shaft. Power for the balance of the mill equipment is furnished by the 20 KW generator mounted next to the engine and driven from a special crankshaft pulley by V-belts.

Here's why so many lumber companies choose

MURPHY DIESEL POWER

to cut costs per board foot

Every part of a Murphy Diesel is designed and built to increase your profit by cutting costs per board foot! Murphy's "true" diesel operation, with unit fuel injection and plain, open combustion chambers, gets more work out of every drop of fuel. Murphy's exclusive Hydraulic Servo-Type Governor assures instant response to load change. You get the lugging power you need to meet heavy-duty sawmill requirements. Murphy's rugged construction means freedom from down time to give you a higher daily average of board feet.

Your Murphy Diesel Dealer can show you the many other reasons why Murphys are preferred by lumbermen for dependable, low-cost operation. Call him today.

400L

HEAVY-DUTY POWER for sawmills

The Murphy Diesel complete line of heavy-duty power gives you your choice of engine types and sizes for every need.

- For mechanical power; Murphy Diesel engines and power units from 96 to 264 HP.
- For electric power; Murphy Diesel "Packaged" Generator Sets from 64 to 165 KW.
- For *both* mechanical and electric power; Murphy Diesel Mech-Elec Units.
- For logging tugs: Murphy Diesel marine propulsion engines from 96 to 243 HP.

MURPHY DIESEL

SEE YOUR MURPHY DIESEL DEALER, TODAY—

MURPHY DIESEL COMPANY

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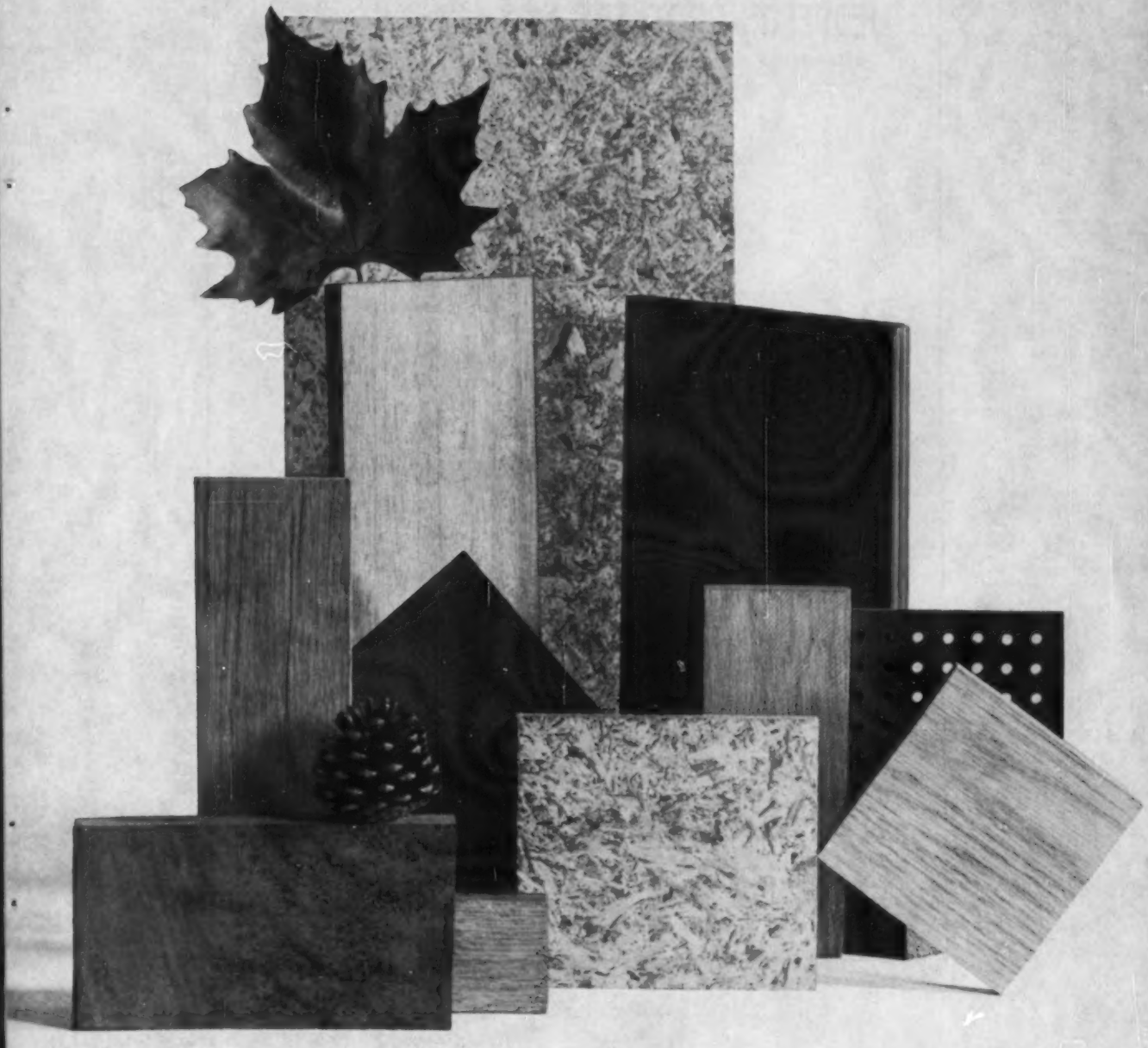
SALES . . . PARTS . . . SERVICE

Throughout the Nation

MONSANTO

The complete line of adhesives for the forest products industries



PLYWOOD HARDBOARD PARTICLE BOARD
FLAKEBOARD CHIPBOARD LAMINATING
WOODWORKING SCARFING PATCHING

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manufacturers of

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Phone ULrich 5-1316

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JEDDELOH BROTHERS stand for . . .

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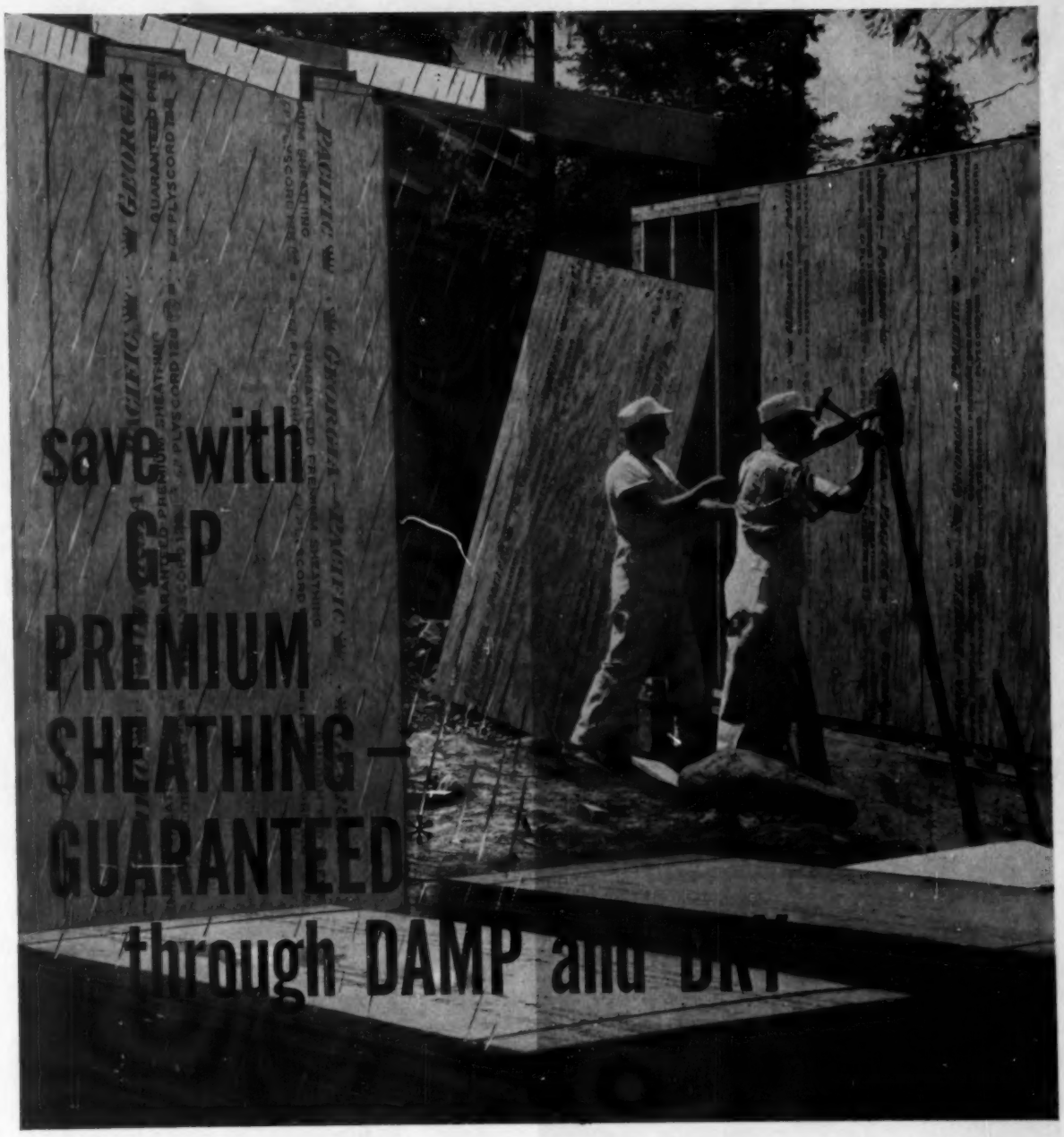

Georgia-Pacific Premium Sheathing is *guaranteed* to store outdoors mold-free and without delamination up to one year! Builders like it because there are no delivery delays, no storage problems. And it speeds work in any weather. Yet this superior Sheathing costs only pennies a panel more! All standard sizes—5 thicknesses. Edge-sealed panels are packaged in steel-strapped bundles, 25 inches high, for easy handling.

* Georgia-Pacific Corporation guarantees G-P Premium Sheathing against delamination and mold for 12 months, stored outdoors off the ground, tarpaulin-covered, or for 6 months, uncovered.

GEORGIA—PACIFIC (GP)
World's largest producer of plywood

Georgia-Pacific, Dept. L1258, Equitable Bldg., Portland, Oregon

Please send descriptive literature, and technical data on G-P Premium Sheathing.

Name_____

Firm_____

Address_____

City_____ Zone____ State_____

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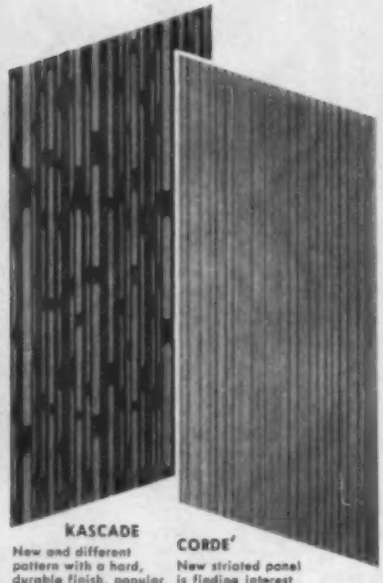
supplies all your plywood needs

You save time, money and energy when you call Van-Ply. Service is fast, delivery is prompt and you have in this one source a complete selection of best-selling specialty plywoods and all D.F.P.A. tested quality exterior and interior grades. You can enjoy extra savings, too, because you get full car prices on mixed cars of fir, hardwood and specialty items.

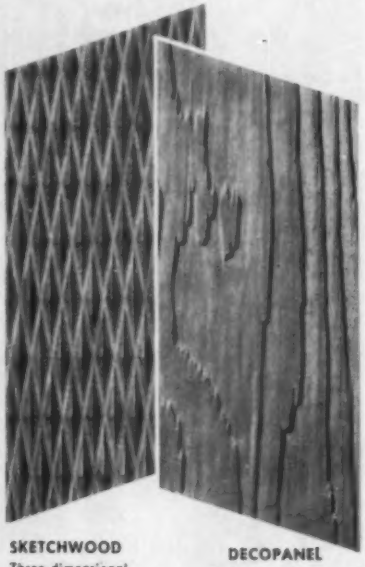
NEW BRUSHED TEXTURE I-II
New textured surface combines decorator beauty with durability and economy.

SHAN-TONG
Embossed two-tone effect provides exotic "new look" in remodeling homes and stores.



KASCADE
New and different pattern with a hard, durable finish, popular for all interior walls.

CORDE'
New striated panel is finding interest with both home builders and commercial contractors.



SKETCHWOOD
Three-dimensional shadow pattern that adds interest and sale value to any home.

DECOPANEL
Textured surface appeals to the week-end carpenter for use in his own den or party room.

DFPA TESTED QUALITY

EXTERIOR GRADES
INTERIOR GRADES

Van-Ply can supply you with every regular D.F.P.A. grade including Plyform panels, roof decking, sheathing, Birch, Knotty Idaho White Pine, Knotty Idaho Red Cedar, Rotary Lauan, Ribbon Lauan, Rotary Red Oak, Walnut, 2-4-1 and the new Marine Exterior Grade scarfed to your specifications.

the name to remember is **VAN-PLY** *one of the nation's finest manufacturers and most dependable suppliers*

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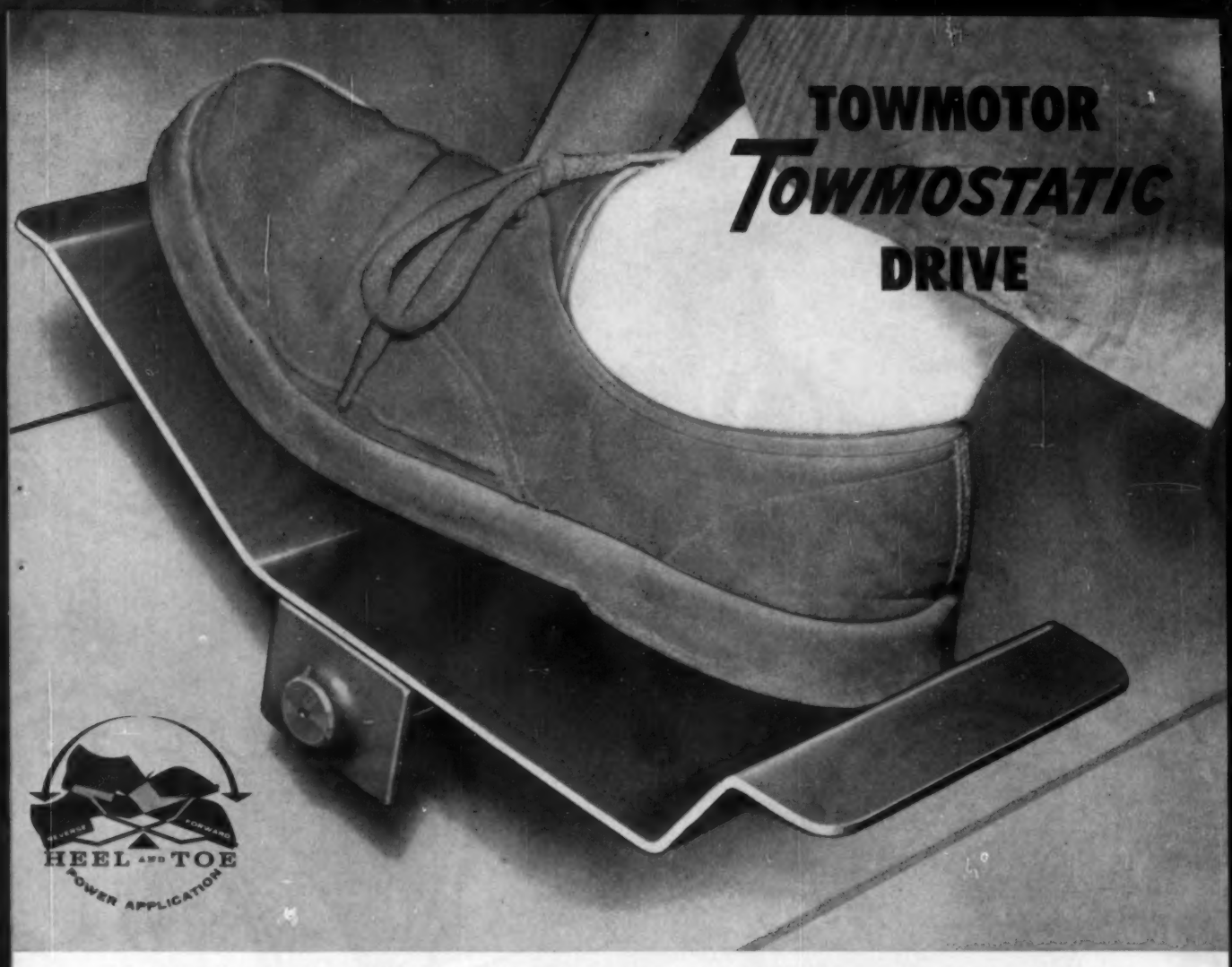
VAN-PLY REPRESENTATIVES IN EVERY MAJOR CITY.
Write us for the name of the plywood distributor nearest you.



Toe pressure for forward . . . Heel pressure for reverse . . .Smooth, accurate "inching" . . . Response is instantaneous! Unique method of instant power application introduced in Towmotor Fork Lift Trucks

NEW! America's first foot-controlled power transmission!

Towmostatic Drive is a Towmotor engineering achievement based on the principle of Hydrostatics . . . an entirely new method of pedal-controlled power transmission that simplifies lift truck operation, reduces hand movements to minimum, cuts maintenance costs and downtime sharply!

With this new drive Towmotor lift truck operators control *all forward and reverse travel* with their left foot on a treadle-type pedal—a natural heel-and-toe action. To go forward, simply press down with toe. To reverse, press down with heel. Response is instantaneous and glider-smooth operation is easily mastered with a few minutes' practice!

Conventional mechanisms eliminated

Towmotor Towmostatic Drive is the first method of power transmission to eliminate clutch assembly, transmission, drive line, differential, plus entire shifting mechanism. Many of the major causes of costly maintenance and downtime are thus *eliminated!*

Operating benefits are many

Smooth, accurate "inching" that simplifies stacking of goods is also obtained through Towmotor Towmostatic Drive. Maneuverability is unsurpassed—acceleration fast—gradeability greatly improved—lifting speed is integrated with drive control for maximum mass-handling.

Write for Towmostatic Drive Booklet. Towmotor Corporation, Cleveland 10, Ohio.

It's really history-making!

NO clutch assembly
NO transmission
NO drive line
NO differential
NO shift mechanism

TOWMOTOR -GERLINGER
THE ONE-MAN-GANG

*Gerlinger Carrier Company is a subsidiary of Towmotor Corporation, Cleveland 10, Ohio

WHERE THERE'S BUSINESS ACTION THERE'S A BUSINESSPAPER

Some blessings we take for granted. Like ice cubes. Or indoor plumbing. However, older men—wiser men—say a little prayer of thanks for things they know they couldn't do without.

Among these wiser men are the men who make top-level decisions in business.

To make decisions, they must have facts. All the facts. All the pertinent information they can get. And they get a major portion of that information from one unique source: the business publications they subscribe to.

No businessman is fully informed until he reads his businesspaper. He reads it for profit, not for pleasure. He searches it through for news of the trade or industry. For facts. For fresh ideas. For new products he can put to work. And he reads the advertising with the same intense concentration he devotes to the editorial pages.

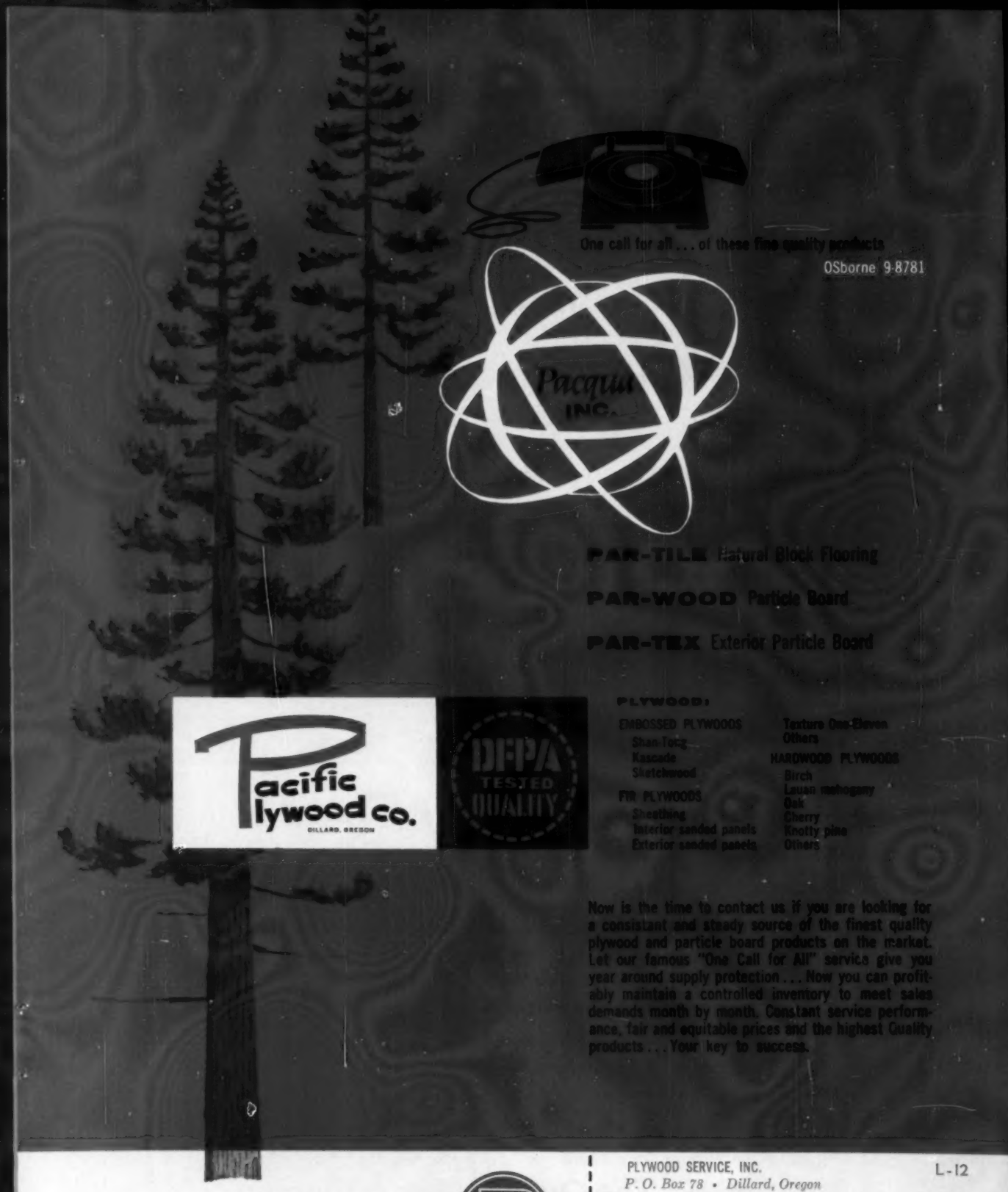
He knows that his businesspaper is vital to his success—to his very livelihood. And he says a little prayer of thanks.

Every man on the way up can profit from his example. Take a tip from the reading habits of key men at every level. Take out a subscription of your own. Read every issue...and read it searchingly. It's *your* businesspaper, too.

THE Lumberman

A MILLER FREEMAN PUBLICATION

One of a series of advertisements prepared by THE ASSOCIATED BUSINESS PUBLICATIONS


One call for all . . . of these fine quality products
OSborne 9-8781
Pacquin
INC.
PAR-TILE Natural Block Flooring
PAR-WOOD Particle Board
PAR-TEX Exterior Particle Board
Pacific Plywood co.
DILLARD, OREGON
DFPA
TESTED
QUALITY
PLYWOOD:
EMBOSSED PLYWOODS
Shan-Tocg
Kascade
Sketchwood
FIR PLYWOODS
Sheathing
Interior sanded panels
Exterior sanded panels
Texture One-Eleven
Others
HARDWOOD PLYWOODS
Birch
Lauan mahogany
Oak
Cherry
Knotty pine
Others
Now is the time to contact us if you are looking for a consistant and steady source of the finest quality plywood and particle board products on the market. Let our famous "One Call for All" service give you year around supply protection . . . Now you can profitably maintain a controlled inventory to meet sales demands month by month. Constant service performance, fair and equitable prices and the highest Quality products . . . Your key to success.

For more information contact
National Sales representatives

PLYWOOD SERVICE, INC.

P. O. Box 78 • Dillard, Oregon • OSborne 9-8781

PLYWOOD SERVICE, INC. L-12
P. O. Box 78 • Dillard, Oregon

Gentlemen:

☐ *Please send me further information on your famous "One Call for All" service.*

☐ *I am seeking a steady source for all my plywood and particle board needs.*

Name..... *Title*.....

Firm.....

Address.....

City and State.....

standard glue extender for the plywood industry

Furafil 100-S extended glues have met the test of six years wide use in the industry. How well they have met the test is shown by the fact that over 8 out of 10 Douglas Fir plywood producers now specify Furafil 100-S.

If you are not now using Furafil 100-S, consult your glue supplier or us for further details.

The Quaker Oats Company
CHEMICALS DIVISION

344Q The Merchandise Mart, Chicago 54, Illinois
Room 544Q, 120 Wall Street, New York 5, New York
Room 444Q, 48 S.E. Hawthorne Blvd., Portland 14, Oregon
Room 6154Q, 815 Superior Ave., Cleveland 14, Ohio

Address.....

City and State.....

LOC-WALL: Idaho White Pine and Inland Red Cedar in Formal and Traditional styling; Larch in Formal styling. Plywood Panels look like individual boards of random lengths and widths, edge and end-Vee'd. Also produced with Gruve-Ply pattern. Interlocking furring strips are already attached.

GRUVE-PLY: Idaho White Pine or Knotty Cedar plywood produced with surfaces carefully sliced like the most expensive imported woods. Looks like individual boards side by side. Goes up quickly, economically. Pre-grooved edges give uniform joints, eliminate need for mouldings.

Weyerhaeuser 4-SQUARE®

LUMBER AND BUILDING PRODUCTS

NU-WALL: Ponderosa Pine paneling with random Vee horizontal end-matching. Kiln-dried and packaged to specified 7′ or 8′ lengths. Comes in three distinctive stylings: Formal (clear), Traditional (small to medium knots) or Contemporary (medium to large knots).

3 NEW WOOD PANELINGS STYLED FOR MODERN HOMES

● Wood paneling is more popular than ever with consumers these days. These three panelings from Weyerhaeuser will help meet this demand. Each style is carefully manufactured, designed for customer appeal, and packaged for added dealer profits.

All three panelings come in special cartons which protect the wood from dust, dirt, and damage. Packages are easy to handle, easy to store, easy to inventory. Customers appreciate the way these panelings arrive on the job with their natural beauty unmarred, all ready for quick installation.

Investigate Loc-Wall, Gruve-Ply, Nu-Wall, and the other fine Weyerhaeuser wood panelings. For full details, consult your nearest Weyerhaeuser 4-Square Sales Representative.

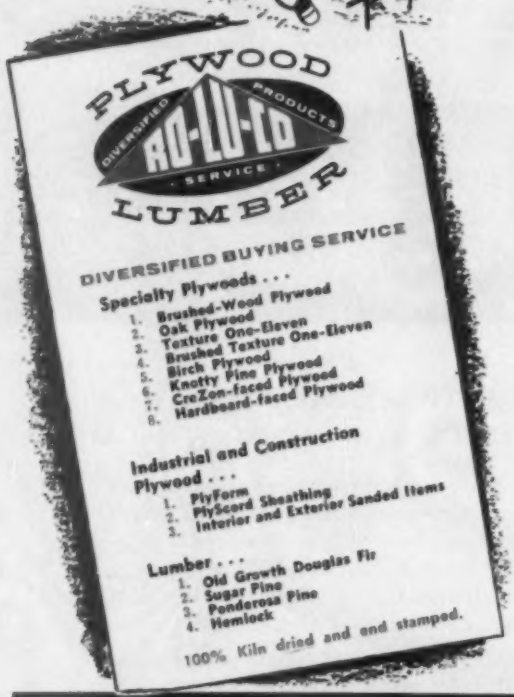
Weyerhaeuser Sales Company

FIRST NATIONAL BANK BUILDING • ST. PAUL 1, MINNESOTA

SPECIFY...

CONSTRUCTION PROVED ROSEBURG *BRAND* LUMBER and PLYWOOD

for GREATER SALES! FASTER TURNOVER! INCREASED PROFITS!



SELL *MORE*... because you have greater diversification of products, greater versatility in ordering, when you buy from ROSEBURG LUMBER CO.
One Source from which to order *Specialty Plywoods, Commercial* and *Industrial Plywoods . . .*
Plus: a GREAT SELECTION of *Fir and Pine* lumber.

MORE *SELL*... because throughout the country, ROSEBURG LUMBER CO. PRODUCTS are *proven* through years of *construction use . . .* and *backed up* by ROSEBURG'S *nation wide* advertising program.

INVENTORY CONTROL.... which saves money by tying up less of your capital. All you do, is order ROSEBURG'S straight or mixed car shipments. This means *less cost* and *increased profits.*

FAST SERVICE and DEPENDABILITY... because your orders are made up from the many different warehouses in the same manufacturing site and put together on one loading dock. This means that *your orders* are *all personalized for content, grade, and quality.*

QUALITY CONTROLLED.... because ROSEBURG LUMBER CO. maintains its own *Quality Control Department* which *never varies*—hour by hour!—and all orders are double checked by the quality control departments of DFPA, Lumber Inspection Bureau. Western Pine Association and the West Coast

DFPA TESTED QUALITY

Mail This Coupon . . . TODAY!

ROSEBURG LUMBER CO.
Roseburg, Oregon Dept. L-12-8

☐ Please send us the name of the nearest ROSEBURG lumber and/or plywood wholesaler or jobber.

☐ Please send us the ROSEBURG WOODSMAN

Firm_____

By_____

Street_____

City_____ State_____

CONTACT YOUR ROSEBURG JOBBER OR WHOLESALER TODAY!

ROSEBURG LUMBER CO.

P. O. Box 1091 ● ROSEBURG, OREGON

NODA JAPAN

NODA PLYWOOD MANUFACTURING CO., LTD.

Shizuoka, Japan

Cable Address: NODAPLYWOOD, SHIZUOKA, FUJI

PRODUCTIONS:

- **SEN, LAUAN, NODAPLANK:**
  V-Grooved Plywood Paneling
- **LAUAN NODARUSTIC:**
  V-Grooved Plywood Paneling
- **ELM, TAMO NODALUX:**
  Plain Sliced Plywood Paneling
  Pre-finishing, V-Grooving available.

As well as NODACO:
One Piece Core Door Panel

More Payload per Trip...More Trips per Day!

Whatever you haul,
LOGS or LUMBER–

diesel AUTOCAR gives the BIG YIELD on your truck investment!

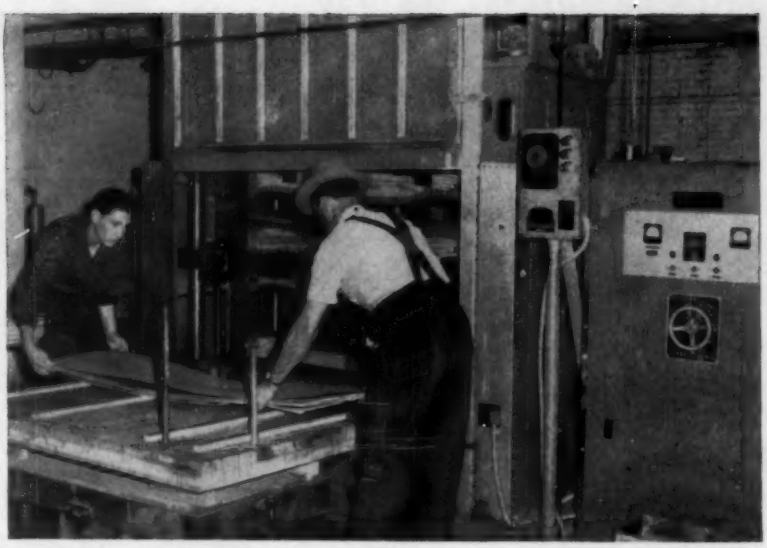
Whether you own one truck or a fleet, don't be satisfied with less than the BIG YIELD from your truck investment . . . that extra earning power you get from diesel Autocar.

Let your Autocar Representative match Autocar cost-saving advantages against your present hauling operation. He can show you how to get *more payload per trip, more trips per day, with less down time for repair and overall lower operating costs.* Call your local Autocar man today!

Sales & Service Facilities Everywhere

THE WHITE MOTOR COMPANY
Autocar Division
EXTON, PA.

GLUING VENEERS for curved panels prior to hot pressing. Core is poplar; surface veneer is walnut, mahogany, cherry or oak—all dried to 6% moisture content.



VENEER PACK, up to 13 ply, goes into forms in electronically heated press which exerts 150 to 175 p.s.i., cures panels in 3 to 5 minutes.

WORKER REMOVES formed panel as fresh pack goes in from other side. Press stays open only 30 to 45 seconds. Three men are needed for maximum production.

FORMS, made in firm's shop, are laminated fir plywood covered with 1/32 in. aluminum and cost from $250 to $500 each. Metal bands at ends transmit heat to pack. Sheet of 1/20 in. hardboard is used as liner under metal sheets to help provide cushioning, uniform pressing surface.

Electronic Hot Press Averages Curved Form Per Minute; Uses Shop-Made, Low-Cost Forms

ELECTRONIC PRESSING turns out an average of more than one curved or serpentine panel each minute at Kent-Coffey Mfg. Co., Lenoir, N. C. "The electronic hot press system produces curved forms more economically, rapidly and accurately than the band sawing system we formerly used," says Harry E. Beatty, plant superintendent.

"The press produces up to three curved forms at once in a press cycle that ranges from 3 to 5 minutes" he says. "Our daily production of curved forms ranges from 2,700 sq. ft. to 3,000 sq. ft."

Ralph H. Martin, glue and veneer room foreman, points out: "Installation of the electronic hot press system meant greater utilization of our veneer room. Moreover, it eliminated a great deal of work from the rough mill which formerly cut the stock used for the laminated blocks for band-sawing of curved panels. In that operation, waste often ran as high as 70%. Thus we have saved time and freed highly paid personnel for other skilled work.

We also find there are far fewer rejects than occurred under the old system during sanding operations and our electronically cured panels are more uniform and accurate."

The press described here is a Lodge & Shipley "Columbia" High-Frequency Press specially designed for the production of better curved panels . . . chair seats and backs, case goods, cabinets, fronts . . . at low cost. Because cure time is measured in minutes, you get high production from a single set of forms. Floor space formerly used for curing storage can be used for profitable production. Small lot production is practical.

The Columbia High-Frequency Press gives double versatility; it is quickly switched over to conventional cold press work. High-Frequency equipment and shielding meets all FCC requirements. For complete details, request Bulletin No. HP-17 from:

THE Lodge & Shipley COMPANY

3060 Colerain Ave., Cincinnati 25, Ohio

COLUMBIA PRESSES for the wood and wood products industry

Photos and data courtesy WOOD AND WOOD PRODUCTS

SIMONDS

RED STREAK

VENEER KNIVES

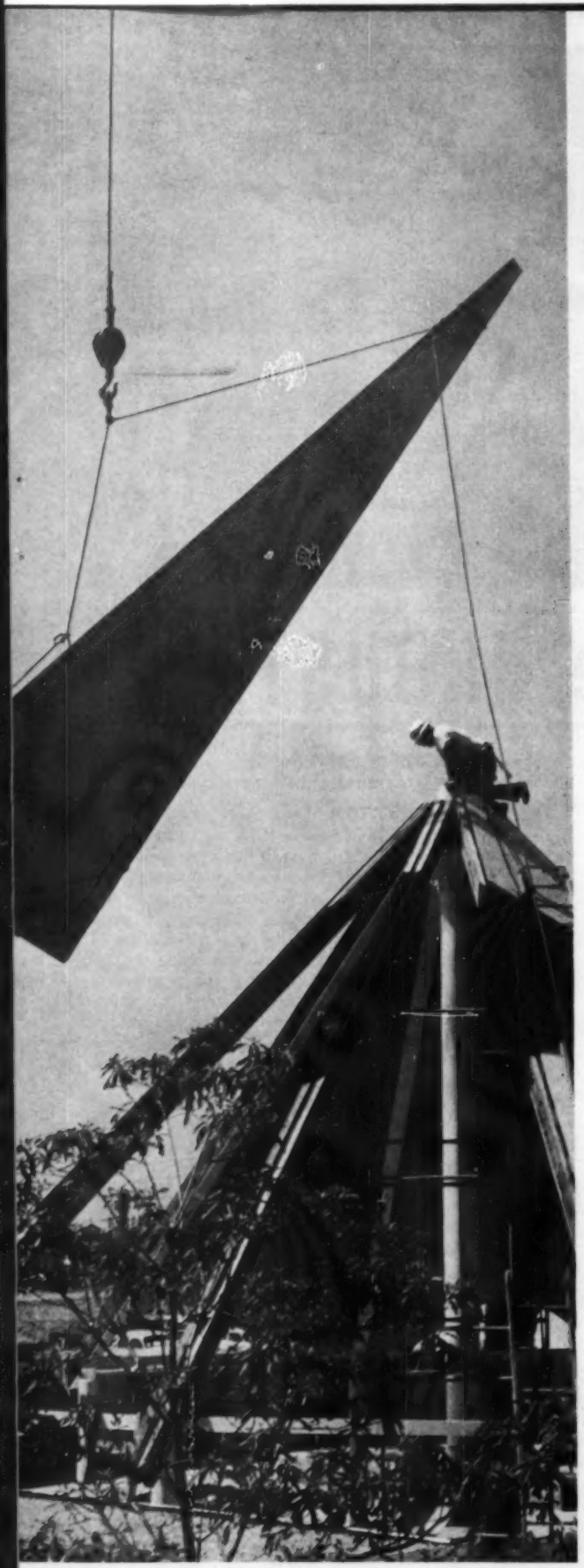
S-H-A-R-P-N-E-S-S H-E-L-D L-O-N-G-E-R — there's the spelled out difference between veneer knives that give so-so performance and tough, sharp, edge-holding SIMONDS KNIVES. Yes, and it's the reason SIMONDS "RED STREAKS" cut uniformly tighter, better veneer. And don't forget the production economies Simonds Knives provide thru fewer knife changes and longer knife life because it takes less grinding to restore the keen cutting edge.

Highly resistant to nicks and abrasion, you'd expect these knives to make short work of hard woods or soft woods — hot or cold — knots and all — and they do just that! Talk to your Simonds Industrial Supply Distributor about trying out Simonds "Red Streaks", they cost no more. Ask about Pressure Bars and Back Roll Blades, too!

Other High-Quality SIMONDS Woodworking Products:

SOLID TOOTH CIRCULAR SAWS | CARBIDE TIPPED CIRCULAR SAWS | FILES | NARROW BAND SAWS | MACHINE KNIVES | SHAPER STEEL

Factory Branches in Boston, Chicago, Shreveport, La., San Francisco and Portland, Oregon
Canadian Factory in Montreal, Que., Simonds Divisions: Simonds Steel Mill, Lockport, N. Y.
Heller Tool Co., Newcomerstown, Ohio, Simonds Abrasive Co., Phila., Pa., and Arvida, Que., Canada



HOW MUCH?
HOW FAR?
HOW BIG?

HOW MUCH PLYWOOD can be profitably marketed today, in the immediate future and in the foreseeable years ahead?

HOW FAR must we go, now, in product development and in what form, to keep pace with changing demands?

HOW BIG is our thinking? Do we approach our business philosophy with its real purpose—that of creating markets, (to which profit is a necessary adjunct)—or are we looking at the short term profit as the end purpose?

HOW MUCH SHOCK of self-imposed profitless-production can the industry withstand? Profit loss is a triple resource loss: Profits, man hours and timber.

HOW BIG must each annual promotional and research expenditure be—to keep pace with competitive markets—to get ahead of them?

No one can answer these questions with any certainty today—yet the future shape of the plywood industry hangs on management knowing the answers.

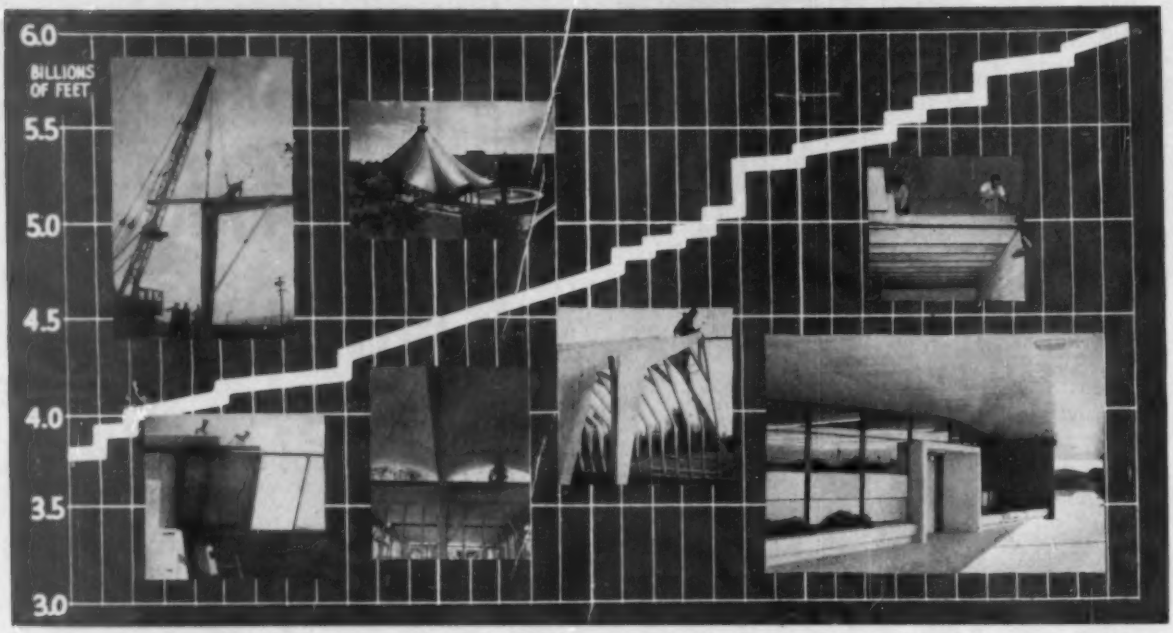
With the broadening use of modern computing machines, many American industrialists are beginning to feed millions of dollars into efforts of industrial scientists who believe that they can compute answers to questions like these by reducing them to a mathematical formula. It may sound far-fetched, but so was a flight to the moon until Sputnik. The whole of American industry has found itself confronted with an entirely new set of market circumstances—with old patterns of marketing being challenged from every quarter—moving so rapidly that today's thinking is outdated tomorrow.

It has been the flexibility of plywood, its ability to adapt to many construction conditions, that has made it so readily acceptable. And this we believe today: That if plywood can continue to provide constantly lowering of "in-place" building costs—if it can continue to provide products of form and composition that will challenge the creativeness of architects and builders and appeal to the imagination of the consumers, plywood will continue to expand its markets.

However, everything changes in form, appeal, convenience and economics. What is considered beautiful, warm and appealing today may be less impressive on tomorrow's people. "Space Age" scientists continue to tell us that we are changing so rapidly that many new products of today will be unknown in five years.

Thus many industries are boldly approaching the future with penetrating research and experimentation.

No one will find the answer to these questions for the plywood industry but the plywood manufacturers themselves. It may take a decade, but the risk of *not* experimenting during the next 10 years may be far greater than that of experimenting. The ones who find the answers to these questions may well have an advantage with which their rivals may never catch up. [END]



STATE of the INDUSTRY

THE PAST YEAR marks a 20-year period of steady growth in the number of plants, keeping the plywood industry well within the category of the nation's growth industries.

Perhaps most significant developments during this past year are: the now apparent expanding markets for plywood structural components; the spiraling demand for prefinished hardwoods; the ready acceptance of packaged plywoods and important advancements in glues. All these factors are opening new horizons for plywood products.

Plywood's long supremacy in panelized construction, which it created, is being challenged on every corner by new products. The industry must face this challenge by multiplied efforts on product improvement, diversity of products and improved production methods. Components, molding processes, contact gluing, continuous layup, new surface applications, chemical treatments and many more, are possibilities that still lie ahead.

As great a challenge will be the ability of the industry to maintain its unity of purpose in research, product quality control and promotion. The future shape of the industry will lie in its answer to this challenge.

Price fluctuations have been the industry's most vulnerable weakness. It was most apparent this past year in its climb to $80 per thousand sq. ft., to a low of $64 per thousand sq. ft., for its "bellwether" ¼-inch plywood panel. Whether it has learned from this "economic-shrinking" experience, or whether it will continue to roam in a wilderness of marketing confusion, will weigh heavily on the balance of its future growth.

ACTUAL PRODUCTION CAPACITY of western softwood plywood plants, including the increase of hardwood production by these same mills, places that industry more than 17 years ahead of its time schedule, estimated by Weyerhaeuser Timber Co.—Stanford Research Report of 1954. The Stanford report placed the estimated demand by 1975 at 7.2 billion sq. ft. (⅜-inch basis). Actual plant capacity by the end of 1958 was 7.6 billion sq. ft. and with the addition of 417 million sq. ft. of annual capacity during 1959, the end of this coming year will see over 8 billion sq. ft. capacity among the western operations.

ACTUAL PRODUCTION of softwood plywood during 1958 is estimated at 6.24 billion sq. ft., some 13.6% above 1957's total output of 5.4 billion sq. ft. A significant trend among the western softwood plywood manufacturers is the rapidly increasing production of hardwood plywood. This past year it reached an estimated 417 million sq. ft. on a ⅜-inch basis. This would place the total production of western mills at 6.65 billion sq. ft. (⅜-inch basis).

Because of the importance and geographic proximity to western states, the production of British Columbia must be taken into consideration. Adding the 875 million sq. ft. production of that province for 1958 to the 6.6 billion sq. ft. produced in the western states, the total was 7.4 billion sq. ft. of plywood produced in the west.

Production of about 123 eastern and southern hardwood plywood manufacturers is estimated to be about 557 million sq. ft. surface measure for 1958. This production is not directly comparable with the ⅜-inch measure used by western operators. However, a decrease in hardwood plywood production from 1957 by eastern plants is partially laid to the increasingly large imports of hardwood plywoods, principally lauan, which totaled 66 million sq. ft. from Japan alone. Probably another important factor of even much larger proportions, is the increasing production of hardwood plywood by western producers.

Bearing the brunt of the added capacity of softwood plywood plants, will be the plywood industry's own Douglas Fir Plywood Association's promotional and research funds which will have the Herculean job of bolstering established markets and of creating new markets.

It is not new plants alone that have been responsible for the fast build-up of production. Probably as great a cause has been the modernization of older plywood plants—the introduction of new and faster automated equipment to keep pace with economic pressures. These same developments that have doubled capacities of existing plants offer more production miracles ahead.

TOTAL NUMBER OF PLANTS, both veneer and plywood, in the Western States and in British Columbia and Alberta, Canada, were down 16 from the previous year. The 1958 total is 205 plants. This decrease was due to closing of some operations and merger of others. Of these, 136 were plywood plants and 69 were veneer plants. There are a total of 122 plywood plants in the western states and 65 separate veneer plants in the same states.

WESTERN PLANTS ADDED during 1958 include the following: Oroply Corp., Oroville, Calif.; Sheridan Hardwood, Inc., Sheridan, Ore.; U. S. Plywood Corp., Roseburg, Ore.; Willamette Valley Lumber Co., Foster, Ore.; Aberdeen Plywood & Veneer, Inc., Aberdeen, Wash.; Bingen Veneer & Plywood Co., Bingen, Wash.; Dwyer Lumber & Plywood Co., Portland, Ore.; Tillamook Veneer Co., Tillamook, Ore.; Carolina-California Plywood, Salyer, Calif.

COMING INTO PRODUCTION in 1959 will be a minimum of six more plywood plants now under construction. They are: Georgia-Pacific Corp., Sonoma, Calif.; Georgia-Pacific Corp., Coos Bay, Ore.; Hampton Plywood Co., Redcrest, Calif.; MacKenzie River Plywood Corp., Springfield, Ore.; Santiam Lumber Co., Sweet Home, Ore.; Winton lumber Co., Martell, Calif., and Weyerhaeuser Timber Co., Snoqualmie Falls, Wash.

AS SALES MOVED UP during 1958, prices sagged and there was considerable cutback in production by many individual plants due to lower prices and glutted markets. Cutbacks ranging from 15% to 25% were reported by operators many plants closed for several weeks.

CONSTRUCTION OUTLOOK FOR 1959 is not entirely clear. However, there are a number of plus factors which should encourage plywood sales in this key market regardless of what trends emerge. The 1958 construction records showed a 10% rise over 1957, probably ending the year with a 1.1 million housing starts. For 1959, predictions are for 1.2 million housing starts at a minimum. With these starts, the following years should show a steady growth in income as the bulge in population is felt.

It has been predicted that the dollar volume of construction will reach $72 billion during 1959 with probably a 7% gain in private housing and a 4% to 5% gain in both public construction and in modernization.

The use of plywood in schools, churches, institutional and light commercial construction is expanding sharply. To some extent this is dependent upon the lower in-place costs provided by plywood sheathing in floors, walls and roofs under conventional building schemes.

Growing interest in components took actual shape in scores of buildings this past year in the form of stressed-skin plywood parts, plywood box beams, vaults, folded plates and hyperbolic paraboloids. Although the volume of plywood used in these applications continues to be proportionately smal, it is in for rapid expansion.

It will be certain that the plywood manufacturers through their own association and their individual company promotions, will be driving hard to keep ahead of the mounting intensity of competition from other construction products. Plywood producers will probably continue to set record sales volumes through the 1960's.

THE BRITISH COLUMBIA FIR PLYWOOD INDUSTRY produced the largest volume in its history in 1958, recording an estimated total of 875 million sq. ft. (⅜-inch basis). This is an 8% increase over 1957 and a 4% increase over the previous high of 1956.

The B. C. industry now consists of 10 companies operating 13 plants.

As in previous years, the majority of B. C. fir plywood (more than 90% of all plywood made in Canada) was marketed in the country of manufacture. The balance was exported mainly to the United Kingdom. Only one type, that of hot press bonded fir plywood, with a completely waterproof glue line, continues to be marketed in Canada. Manufactured to meet specifications of the Canadian Standards Association it has gained wide acceptance in the National Building Code and municipal specifications.

Business volume remained steady throughout the year, the majority of mills operating at near capacity.

While Canadian industrial construction was lower during 1958 than previous years, house building hit an all-time high with an estimated 153,000 starts, of which almost 100,000 were single dwelling units. Exports of B. C. fir plywood showed a gratifying increase, but remained a small part of the total.

Production of western softwood plywood, other than fir, by some member mills, was increased during the year. An industry standard has been set up and adopted by all producing plants. Progress was made toward publication of a specification for western softwood plywood by the Canadian Standards Association.

The Plywood Manufacturers Association continues to carry the collective efforts for the industry in research, trade extension, promotion and advertising. [END]

WESTERN SOFTWOOD PLYWOOD PLANTS

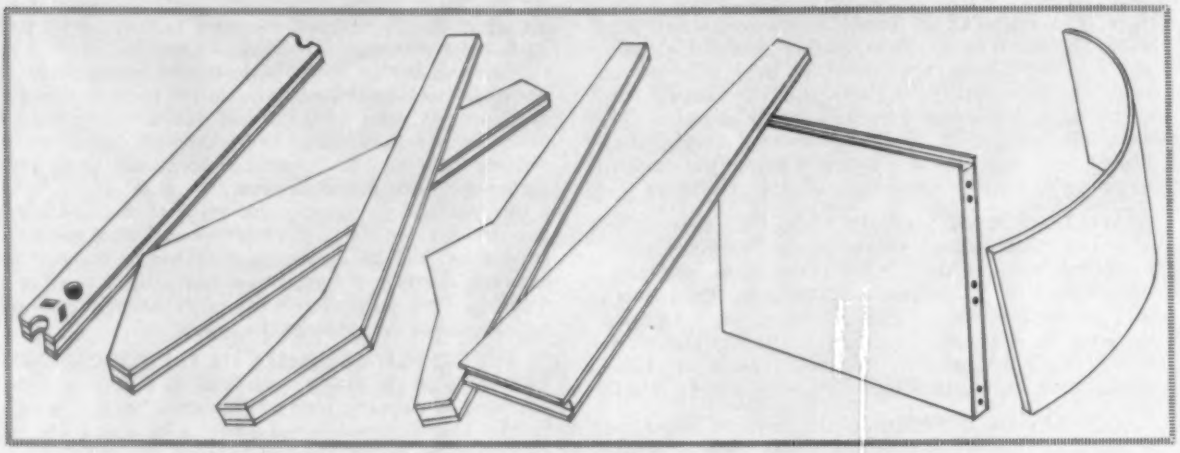
Year	Wash.	Ore.	Cal.	B. C.	Ida.	Mon.	Alb.	Tot.
1937	19	4	2	3	....	....	....	28
1938	19	4	2	3	....	....	....	28
1939	20	4	2	3	....	....	....	29
1940	19	9	2	3	....	....	....	33
1941	19	10	2	4	....	....	....	35
1942	22	10	2	5	....	....	....	39
1943	22	10	2	5	....	....	....	39
1944	22	10	2	5	....	....	....	39
1945	22	11	2	5	....	....	....	40
1946	22	11	2	5	....	....	....	40
1947	21	13	5	5	....	....	....	44
1948	24	13	6	5	....	....	....	48
1949	31	20	9	5	....	....	....	65
1950	34	25	12	6	....	....	....	77
1951	37	34	14	7	....	....	....	92
1952	36	39	18	8	1	....	....	102
1953	37	42	18	8	1	....	....	107
1954	36	46	17	9	1	....	....	110
1955	37	54	20	10	1	1	....	124
1956	35	64	22	12	1	1	1	137
1957	34	65	22	13	1	1	1	138
1958	30	70	20	13	1	1	1	136

U. S. DOUGLAS FIR PLYWOOD PRODUCTION 1935 — 1958

In Million Square Feet—⅜-inch—3-Ply

1935	480	1947	1,630
1936	700	1948	1,871
1937	725	1949	1,889
1938	650	1950	2,554
1939	950	1951	2,866
1940	1,200	1952	3,049
1941	1,620	1953	3,670
1942	1,782	1954	3,903
1943	1,430	1955	5,075
1944	1,440	1956	5,240
1945	1,200	1957	5,450
1946	1,395	1958	6,240

Included in softwood production, Million sq. ft.: pine 81; spruce, larch and hemlock 186; cedar 3; redwood 4.8. Western states hardwood production (⅜" basis) 417 million sq. ft. Total western including hardwood, 6.6 billion sq. ft. British Columbia's 875 million sq. ft. brings total softwood in west to 7.1 billion sq. ft. Plus western states hardwood production total is 7.5 billion sq. ft. of plywood produced in western area including western states and British Columbia.



The Plywood Component

offers a new challenge for design

Plywood components that builders are using today are both factory and site assembled

Facing constant pressures of holding on-the-site costs within bonds, "component construction" is a term that is beginning to have significant meaning for architects and builders—and new opportunity for manufacturers of building products. The adaptability of the plywood component has been accepted with enthusiasm.

ON-THE-SITE construction costs are a sensitive economic focal point for architect and builder. Always squeezed between pyramiding labor costs and the ability of the buyer to pay, component construction may likely be the trump card for the architect, builder and product manufacturer. Components have five advantages: material savings, better engineered products: design flexibility reduced erection time, lower financing costs.

The team of manufacturer, architect and builder have the responsibility of achieving these factors in the best manner possible and seeing that the buyer's money remains invested in the most favorable terms possible. Initial costs, maintenance and obsolescence must be considered.

Components, as we speak of them here, are assembled or fabricated sections or parts that may be used for construction of homes or other buildings. When put together with other components they form the whole, or a major part of a structure. Instead of handling a multitude of individual pieces on the job, components mean fewer, larger parts or sections, preassembled and ready for installation when they reach the job.

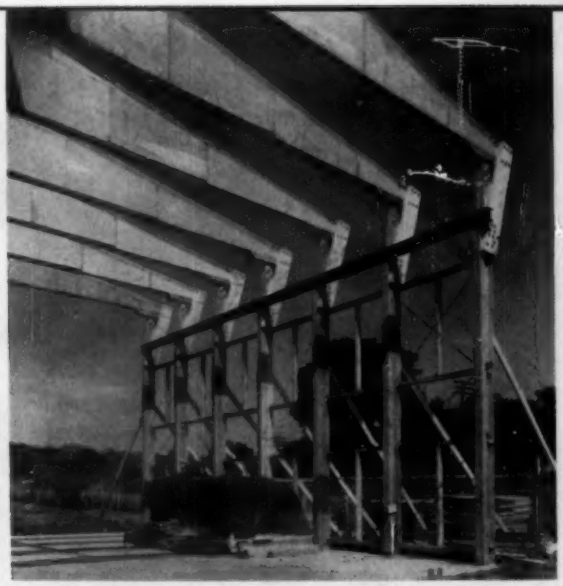
They may be roof sections; combined ceiling and roof panels; load-bearing and non-load bearing wall sections with insulation between interior and exterior faces; window and door sections; floor sections: trusses; beams and other forms. They may be combinations of one or more different types of building materials.

PLYWOOD IS A COMPONENT: It is in itself an engineered component panel. This basic product has already converted building patterns to panelized form. The application of plywood as a basic material for other components is another major forward stride in construction methods.

Plywood components have the challenging advantage of economy, flexibility and honest product use. Instead of cheapening a structure, they improve it because of controlled quality, more accurate engineering of assembled parts. Simultaneously they reduce erection time. Components may have a predetermined use. They may also be made for stock in specific standards and sizes, adaptable to dozens of uses.

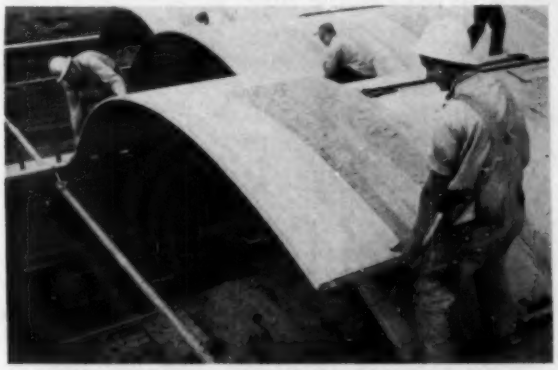
The panelized component offers a fresh concept for architectural achievement and new construction form—an opportunity for better quality structures at lower job-site costs. The component fabricator is appearing as a new factor in the construction industry. Douglas Fir Plywood Association has been an exponent of the establishing of fabricators. It is hoped that quality standards will soon be established under which such fabricators may produce components to specific construction standards.

BOX BEAMS are hollow structural members designed to carry specific loads across given distances; consist of plywood webs laminated to lumber flanges. Advantages: Corrosion resistant, dimensional stability, easy-to finish surface; maximum strength, minimum weight.

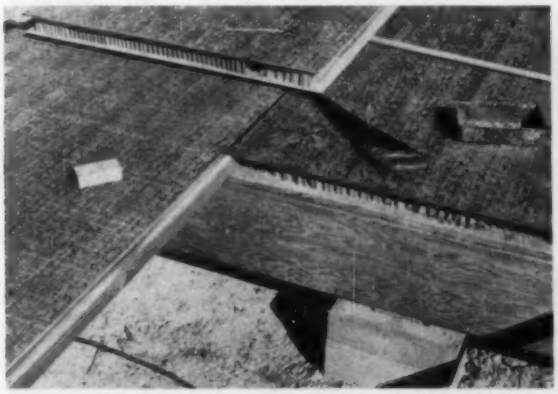


PLYWOOD TRUSSES cut costs substantially. Similar to box beams. On this job 50-ft. span on 80-ft. centers, glue-nailed saved $1250 set in place. Trusses were job fabricated, designed to permit movement of crane inside the building. Light weight, strong.

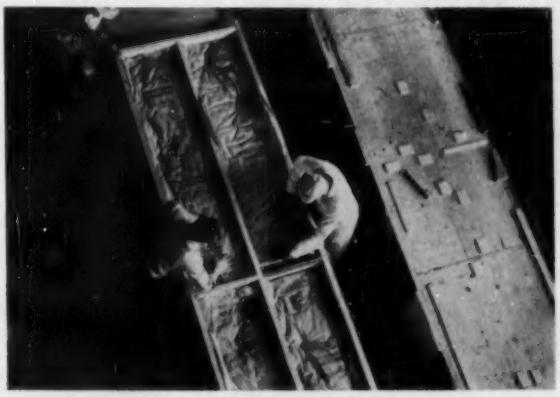
STRESSED-SKIN PANELS are box shaped units whose framing members are faced with plywood skins with shear stresses being transmitted between plywood and framing members by glue joint. Excellent flexibility for walls and roofs. Contain own framing.



VAULTED ROOFS provide interesting rooflines. Flexibility of fir plywood panels makes them ideal for added strength and lightness. Made of sandwich panels, skins are glued to honeycomb paper core. Will hold four times design load with deflection of only .38 inch.



SANDWICH PANELS have honeycomb paper cores, plywood skins. Have great structural strength and good insulation qualities. Embossed plywood used here for wall and floors. Components have ¼" Exterior fir plywood skins glued to 2⅝" and 3½" honeycomb core.



ASSEMBLING stressed-skin panels in plant construction of component. Fiberglass insulation is installed between framing members and top skin will be glued on framing to complete each unit. These are being made up in 4x8' units for school building. [END]

RECENTLY COMPLETED IP plant in architects drawing, shows entire view of 50,980 sq. ft. building. Entire plant with exception of concrete floor was constructed of plywood and wood fabricated by the Long-Bell Division.

International Paper builds

A Show Case of Plywood Construction

New converting plant demonstrates building techniques that show practicality and versatility of plywood

A REMARKABLE NEW APPLICATION OF WOOD forms a unique structure at Auburndale, Fla., which may well be the forerunner of many similar buildings from coast-to-coast.

International Paper Company's Container Division has constructed an ultra modern 50,890 sq. ft. all-wood converting plant. It is one of the largest—if not the largest—all plywood and wood structures built since World War II. Its eye-appealing and highly efficient manufacturing plant and office highlight the tremendous technological developments now available in wood construction. But more than this—it graphically illustrates the enormous plus factors that prefabricated plywood can provide in construction, economy, durability, function, maintenance and beauty. With an over-all cost of $7.54 per sq. ft., there were no building code problems. Insurance-wise, it enjoys a "superior" rating.

ARCHITECTS: Ralph and William Zimmerman, A.I.A., Sarasota, Florida.

BUILDER: Gilbert & Shields Constructors, Inc., Tampa, Florida.

METAL COVERED PYLON in front of office building adds contrast and texture and demonstrates ease with which aluminum and plywood may be bonded. Pylon is made of .020-inch aluminum, bonded with fir plywood. Unusual composition of office walls, both interior and exterior are highlight of entire structure.

Conceived and largely designed by International Paper's construction engineers, components were fabricated by the company's Long-Bell Division at Longview, Wash. IP emphasizes, however, that the Division does not, at present, intend to either manufacture or market most of them commercially. IP's chief concern was to provide the best possible plant for its ultimate purpose—the manufacture of corrugated cartons.

"OUR BUILDING REQUIREMENTS," said W. E. I. Davies, chief engineer, IP's Converting Division, "were typical of light industry—speed and economy of construction, long spans between columns, freedom from maintenance problems, efficient office and manufacturing areas and a pleasant atmosphere inside and out." It was at the suggestion of IP's president Richard C. Doane that engineers explored the idea of an all-plywood plant.

Their experience with the new plant proved that plywood couuld not only meet the requirements, but exceed them.

Basic factors in the successful project were contributed by Long-Bell's research department, the Douglas Fir Plywood Association and the West Coast Lumbermen's Association. In varying degrees, all provided background, technical know-how and engineering facts and figures vital to construction.

Long-Bell research developed efficient and off-site prefabrication methods. Structural members were erected in 10 working days. Roof panels were added in 10 working days and plywood siding for the 320'x148' manufacturing area went on in five working days.

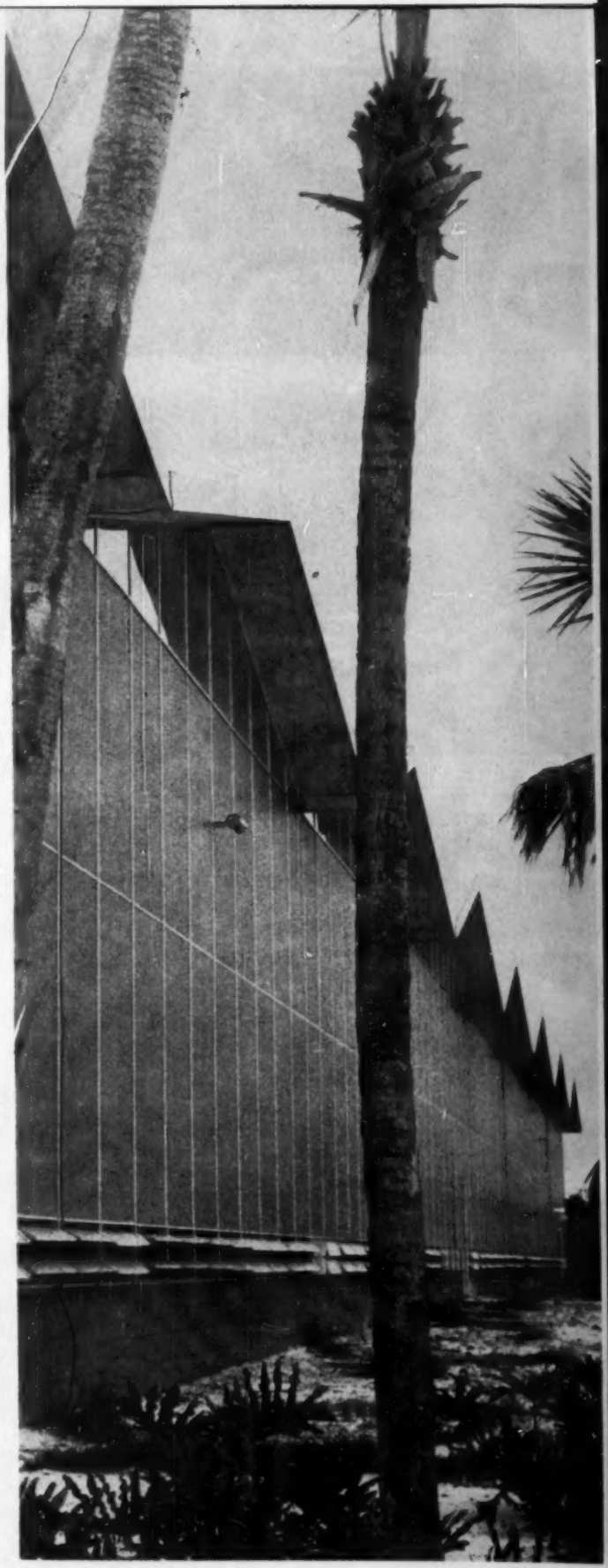
EXTERIOR WALLS are of ¾" high-density fir plywood panels bonded on both sides to form exterior and interior surfaces. They were produced at the Long-Bell plant. The clear plastic face permits beauty of wood grain to be exposed and is expected to be maintenance free during the lifetime of the building.

Office interior wood partitions are sandwich panels with corrugated cores. They were used not only for economy and ease of installation, but for their beauty and warmth. Various decorative hardwood plywoods: Myrtlewood, birch, mahogany and cherry are plastic film bonded and add distinction to offices.

Inserted below the windows in the employee's lunchroom were special panels to provide dramatic effect. By a simple modification of the sandwich panel construction, honeycomb corrugated core cells were bonded to sheets of translucent Fiberglas. Certain areas of Fiberglas were dyed with primary colors to form pleasing design of colorful geometric patterns, giving a stained glass effect.

Office area is entirely air-conditioned. The manufacturing area is cooled naturally with louvres surrounding the building. The foundation and floors of the manufacturing section are of concrete, 150 lbs. per sq. ft., with type SH "Emeri-Crete" topping. Office floors are of terrazzo. There are no special machine foundations, service tunnels or basement areas.

Completed in 154 working days, engineer Davies sums up the building in this manner: "We have what we believe is the most modern and efficient container plant in the industry, built at a competitive cost. What-is-more, we expect it to be maintenance free and continue for years to come, to be a showcase of excellent plant design."



MANUFACTURING SECTION side view shows louvres at bottom of the wall to provide natural ventilation. Plexiglass windows near the roof provide natural lighting, supplementing the fluorescent lighting throughout the plant. The wall construction is ¾" panels with high-density overlays.

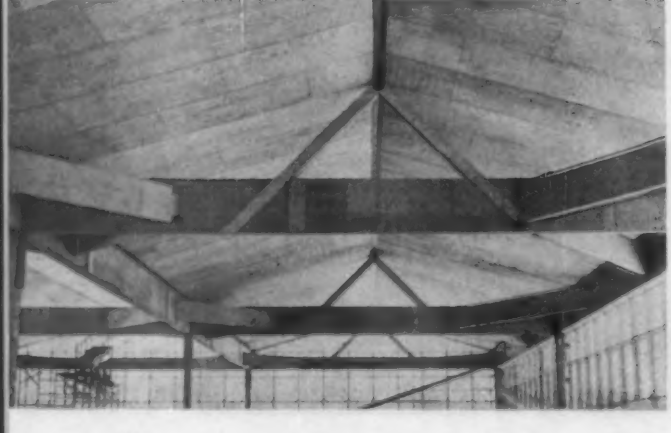
MORE ON PAGE [56]

Showcase for Plywood (Continued)

OFFICE AREA, left, from employees' entrance, and plant at right. Office was built of same structural beam and roof principle as plant. Finish of walls was different from plant. Sandwich construction using corrugated kraft board (egg-box type) cores and ¼" fir plywood front and back faces. Panels are 2'x4' and 2" thick. They have unusual strength, withstanding 3,000 lb. direct load test—in excess of 300 lbs. per sq. ft. Cores are impregnated with phenolic resin, moisture, mildew and vermin proof. Exterior side walls have permanent finish of duPont's "weatherable," Mylar, a glossy totally transparent plastic. Front of office is protected by dull plastic finish called "R-film" also a duPont experimental overlay.

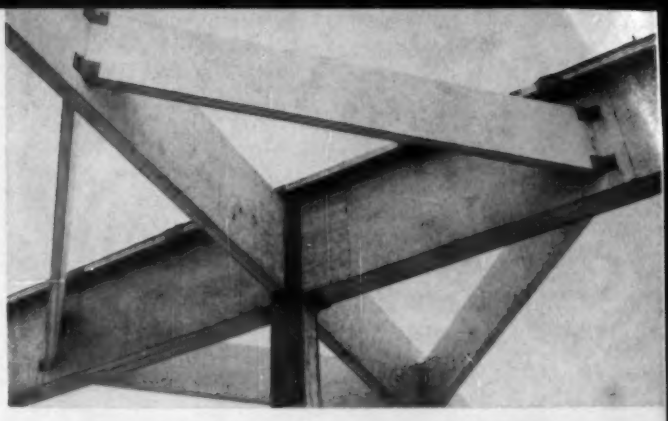
SIDEWALLS of the manufacturing area are Exterior grade high-density ¾" standard 4'x8' fir plywood panels. They were affixed to the on-site prefabricated framework. Semi-transparent, the water-proof and damage-proof surfaced panels also form the diagonal wall bracing. There is expected to be no exterior maintenance for the life of the building.

ONE OF KEYS TO ECONOMY—both in time and dollars—is use of prefab Douglas fir plywood box beams. Structurally designed to suit plant requirements—a series of 40'x48' bays. The 48' spans were achieved simply and economically with the box beams—strong as steel and considerably lighter. Praefabbed on production basis, costs and shipping were less and they were easy to erect. The 4'x48' beams were made by joining 24' scarfed 1-inch plywood sheets. Dimension 2x12 lumber served as horizontal and vertical spacers to give strength and rigidity to the complete length of the girders. LEFT shows gluing frame for exterior plywood to form the main box beam girders. LOWER LEFT shows columns, girders, roof panels, struts, wind bracing and ridge angles in place.



HOW COLUMNS AND GIRDERS are secured with steel plates. Note also wind bracing of box beams. The 10' overhang covers rail siding. Wall studding section being lifted into place in background.

COLUMN CONNECTIONS are of special interest. Steel angles were used for column-to-beam and column-to-girder connections. The columns were made of two wood members laminated to a 1″ plywood spacer. Near the footings a steel plate was used for the spacer, rising up between the two wood members and continuing down into the concrete, assuring strong, rigid connection. TOP RIGHT, photo shows connection of 48″ girder and 36″ girder and wind bracing at the column. Bottom seat angle is shown in place at the top of the 48″ girder. SECOND, RIGHT shows office building girders bracing, roof panels and columns in place.



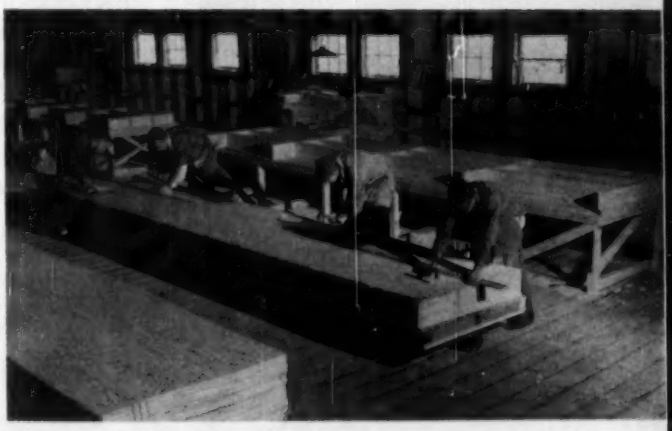
Other Plant Facts

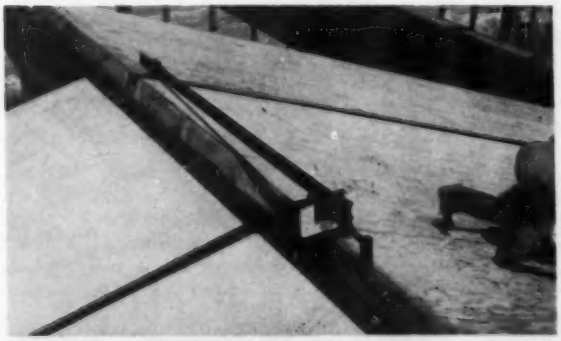
The plant is located on a 15.2 acre tract in a semi-rural area. Tropical landscaping designed and executed by a professional to blend with surrounding area. A patio and reflection pool included in the layout with the entrance via the employee's parking lot.

The use of plywood and wood was a tradition-breaker for the company. In the two years since the Long-Bell Division became a part of the IP by a merger, the paper company built nearly a dozen plants for its converting operations. This was the first to be an all wood structure. Before they were through the contractors became highly enthusiastic, stating that this new type of construction outpaced previous standard methods.

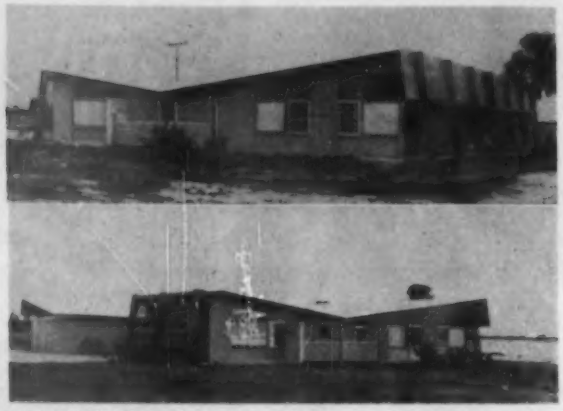
Employee facilities include a modern locker, toilet facilities, recreation-lunch room and first aid facilities. A conventional type wet sprinkler system is installed throughout the plant.

ROOF PANELS, provide clear-cut illustration of plywood's versatility, using stressed-skin principle. Prefabbed, light weight and easy to install—each pair of panels spans 40′ forming a peaked roof over each bay. Panels are fabricated to ⅜″ fir plywood top skin and ¼″ bottom skin. Glue-nailed to webs and frames of 2x8″ dimension lumber. The 8″ thick sections will withstand winds at a velocity of 125 mph—equivalent to 45 lbs. per sq. inch. RIGHT shows application of plywood to beams to form thick panels, which also provide natural insulation. LOWER RIGHT, shows panels being put in place on the roof.

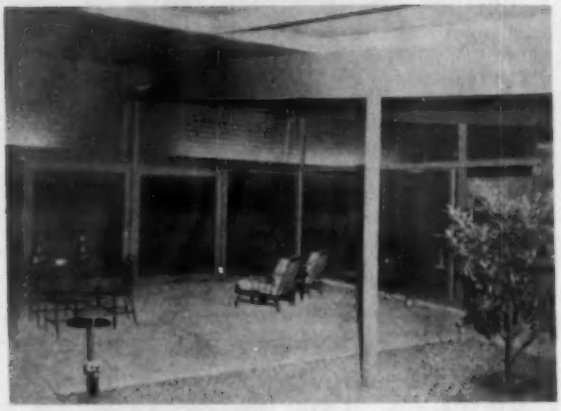




PULLING ROOF PANELING tightly together at the ridge angle was accomplished by means of a wood clamp. Panels were fitted together before they were nailed into place. [END]



CAPE HAZE HOME of Russell Brooks has unusual component applications. $30,000 home blends plywood, paper, glass and hardboard.



INTERIOR GARDEN PATIO. Note supports of Monostructure beams continuous Texture 1-11 light valance over glass doors.

MONOCLAD door being installed in Brentwood school. Plastic covered, it is easily fitted.

MONOSTRUCTURE FLOOR section which is shown by company president Harold Pickett.

Monostructure Components

bring new concepts in construction

Remarkable ingenuity in adapting the basic honeycomb structure to multiple building uses for doors, box beams, girders, trusses, floor panels, ceiling and wall panels, has been accomplished by Harold Pickett, president of Monostructure, Inc., Sarasota, Fla. A blending of Monostructure units and plywood, both as skins and tie-in construction, has produced some outstanding results. Architects and builders are making imaginative use of the sandwich units.

ARCHITECTURAL BLENDING of large quantities of plywood Monostructure components were used in the outstanding Cape Haze home of Mr. and Mrs. Russell Brooks at Placida, Fla. Cyril T. Tucker, AIA, Venice, Fla., was the architect and S. G. Frazier, Jr., designer. Featuring butterfly roof and exposed Monostructure support beams that extend to the ground, the house commands an imposing view overlooking Casparilla Sound and the Gulf of Mexico. Basic construction consists of six 12-foot bays, making the house 75'6" long and 72' wide. Total roof area is 4839 sq. ft. The house has 5 bedrooms, 3 baths, centrally located kitchen, 11 sliding plate glass doors.

Basic idea was to roof a large area and then locate various living areas under the roof, separating living from sleeping areas by means of roofed patios. Architect Tucker feels that in sub-tropics, large roofed areas are a "must." Living area occupies 2000 sq. ft. floor space and 2100 sq. ft. of porches, sun pockets, carports.

Monostructure roof decking has ¼" Exterior plywood top skin, 3½" honeycomb core, 5/16" Masonite finished ceiling skin. *Thiakol* compound was used to seal butt joints and top skins were painted with *Hypalon* polyester plastic paint, only roofing applied. All metal flashing were eliminated. The ceiling brought down the exterior wall and back into the room forms a light valance.

The central graveled indoor garden space is at the low point of the butterfly roof and the invert of the plywood bent. Maximum span of the bent is 24'. Skins on girders are ⅜" Exterior fir plywood. Other bents have ¼" Exterior skins and 3½" honeycomb cores. Walls have ⅝" Texture 1-11.

COMPONENT PORTABLE school room units are playing an important role in solution of Florida's problem of overcrowded schools. Monostructure, Inc., is constructing units with an unusual but effective combination of two Douglas fir plywood structural components. These are the Monostructure box beams and sandwich panels.

Standard building measures 24'x32'. Siding is Exterior Texture 1-11 ap-

plied vertically. Buildings are varied with one or two doors and either louvered or jalousie-type windows.

Entire construction centers on one 5″x24″x32′ beam running the length of the building. Fir plywood skins are ¾″ over honeycomb core. The box beam supports 16 feet of roof on either side.

Four 4″x1″x32′ Monostructure floor beams run the length of the building and support the entire unit. Each box beam rests on 5 concrete pilasters. Beams are 4″ thick with ¼″ fir plywood skins. Spans on 8-foot centers.

SIESTA KEY BEACH COTTAGE of Harold Pickett is a modification of the portable school. Dimensions are 24′x32′. A tiled portico has been added along the waterfront side.

Other modifications include: a 6′ cantilever overhang of the roof on the portico side, Monostructure floor panels with 4-inch honeycomb cores and ¼″ plywood skins top and bottom. Top skin is "Tweed" embossed. Surface is treated with Watco which densifies wood and makes it highly resistant to fungus and mildew. Skins are both Exterior A-C. Interior surface is waxed.

Outside walls and roof panels are Marine grade overlay, coated with duPont metallic Hypalon paint. Such a surface requires no maintenance.

Both floor and wall panels are Monostructure with Douglas fir lumber spline members. These are glue-nailed, forming stressed skin components. Interior is ribbon lauan.

Concrete pilasters supporting floor beams have special shoulders. Extra heavy lumber framing of box beams is bolted to the vertical extension of the supports with bolts that pass completely through the units. Floor beams are on 8′ centers.

MONOCLAD DOORS and panel components are entirely enclosed in a single seamless skin of thermosetting plastic. Phenolic impregnated paper is used as honeycomb core and prevents fungus formation. Core surfaces are Exterior grade Douglas fir plywood. The plastic skin is a special 9-part formulation of polyester. The units are cast in 3/16″ coating of plastic on glass forms to provide smooth surface. Doors and panels are highly resistant to moisture, chemicals, salt air and spray, impact, aging, fire and bowing. There 7 stock colors, custom colors on order.

The doors are popular for schools and hospitals. At the new Brentwood school under construction in Sarasota, 57 exterior doors in the 24-unit, $360,000 structure, are Monoclad. Door costs are comparable to other top grade flush plywood doors according to architect William Rupp and superintendent A. A. Scott.

THE UNUSUAL HOBOAT is an effective application of Monostructures. It is a houseboat with all the comforts of home. The use of honeycomb, stressed-skin panels give the boat 150 flotation cells per sq. ft. and amazing strength. Overall dimensions are 10′x32′. Included are: an 8′ foredeck, a 6′ rear cockpit, galley, dining and stateroom, head, shower, bedroom, closet space, cupboards and storage.

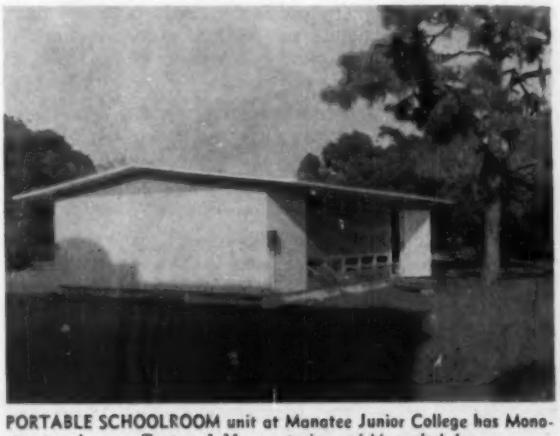
Bottom is constructed of 4″ thick sandwich panels. Hull sides are made in one piece using rigid engineering principles of plywood beams. Each side, is in effect, one piece, 3′x32′ and 3″ thick, making it tough and well insulated.

Forward and top decks are similar to bottom construction. Specially treated deck reflects sunlight and keeps it cool. Board draft is 5½ feet. [END]

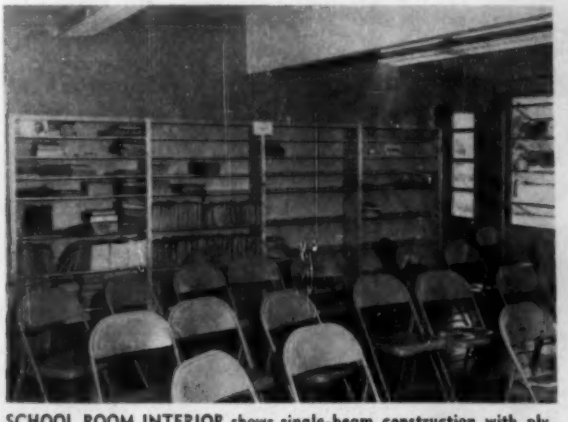
SIESTA beach cottage. Monostructure deck and roof. Box beams bolted to pilasters.

SIESTA cottage interior construction. Note main 5″x25″ girder has ¾′ fir plywood skins.

HOBOAT has monostructure system giving unusual stability and added strength.



PORTABLE SCHOOLROOM unit at Manatee Junior College has Monostructure beams. Texture 1-11 on exterior and Monoclad door.

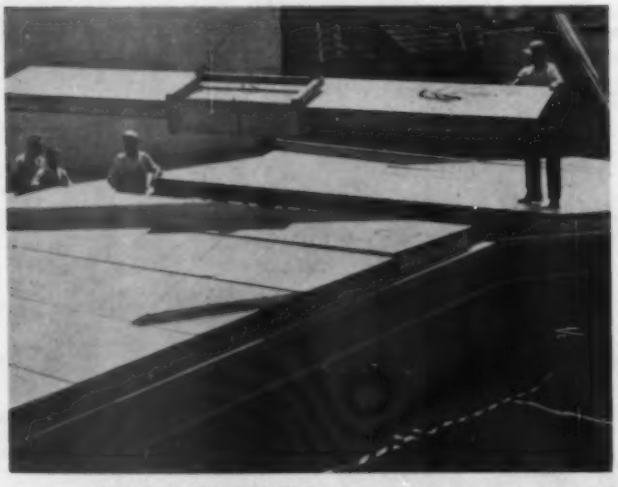


SCHOOL ROOM INTERIOR shows single-beam construction with plywood walls and Monostructure roof, flooring. Hardboard ceiling.

PANELBILD SYSTEM

speeds construction; gives better quality

LAYING PANELBILD stressed-skin panels as ceiling-floor components on home. Three men laid 2200 sq. ft. in three hours. Panels have tight T&G joints. House cost was $8.20 per sq. ft.



SANDWICH PANELS of modular stressed-skin, 24′ long, formed main roof on commercial building. In place at 89c per sq. ft. excluding finish roofing. 30′ panels at front overhang six feet. Span is 24 feet.

THE MODULAR PANELS of the Panelbild System make possible a highly simplified method of building with marked appeal to cost-conscious designers, home buyers, school boards and companies with expanding building programs. Result—you will see the name "Panelbild" connected with several outstanding school and commercial buildings covered in this Annual Plywood Review.

Starting out five years ago in a shed and without much more equipment than a few dozen furniture-clamps, Peter Bilder, president of Panelbild Systems, Inc., Lynnwood, Wash., has developed a modular line of stressed-skin panels for floor, roof and wall. He also supplies panels and box beams on a custom basis in a variety of long lengths and special shapes.

DESIGN ON A MODULE denotes restrictions, but Panelbild's line is surprisingly versatile. Unlike conventional prefabbed "packages," the components may be specified for part of a structure or used throughout.

Bilder's regular line includes 18 roof panels with different combinations of skin thickness and two-foot lengths between eight and 20 feet. The components have ventilating holes and space for wiring. Their edges are T&G. The four basic wall panels are available with edges grooved, rabbeted or square. His arched panels are the "sandwich" type with honeycomb cores. His components are fabricated under controlled conditions and complete design load data is furnished.

ADVANTAGES OF THE PANELBILD SYSTEM are listed by Bilder in this order of importance: (1) Quality of job—with skilled carpenters frequently scarce a prefabbed component insures good workmanship; (2) quality of materials; (3) tighter structure; (4) speed of erection.

Bilder feels that in many cases, the designer, though enthusiastic about components, fails to take full advantage of the modular concept by not keying the total design to it. He thereby loses chances for important savings in material and time. Some contractors have also resisted components and many workmen are, quite naturally, inexperienced in handling them.

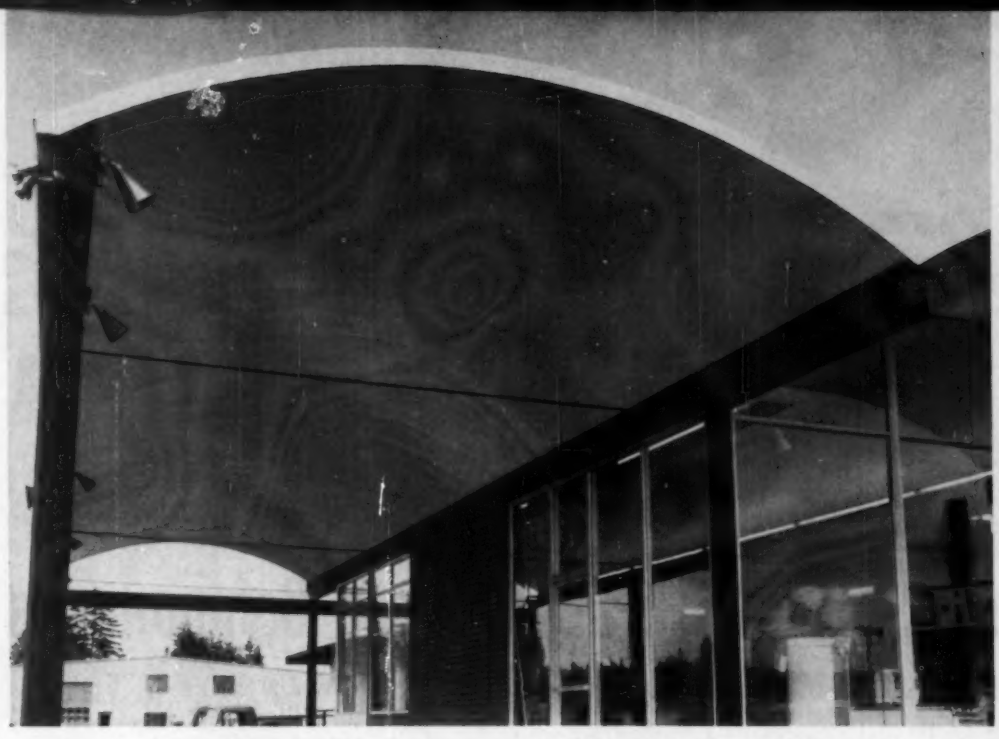
As a result, Bilder now quotes an in-place cost and sends his own workmen to the job site. This proves to be advantageous to the contractor because of simplified financing. Providing installation labor and materials, the contractor need put up but little money until the roof is on the building.

SPEED OF ERECTION was demonstrated on a series of residences in the Pacific Northwest when three of Bilder's men laid a 2,200 squart foot roof in eight hours on their first try. Subsequent time was reduced to three hours. In home construction his panels find their greatest use as combination floor-ceiling components.

In one $18,000 Seattle home, construction costs were $8.20 per square foot. The panels were fabricated with the skins slightly off center to form a T&G joint; a space left in this longitudinal joint provided a chase for wiring. Insulation was applied as the panels were fabricated.

Each 4x12 panel in the ceiling-floor of the first story was made up of ¾″ top skin and ¼″ bottom skin, glued to 2x6 framing. Lighter 4x12 panels for the second story have a ⅜″ top skin and a ¼″ bottom skin glued to 2x4 framing.

Costs, including fabrication and installation were 90c per square foot for heavier panels and 79c for the lighter ones. Robert Hugus was architect and John Odgers was builder. Both are from Seattle. [END]



The Imaginative Vaulted Roof

FLEXIBILITY and handling of stressed-skin panels held total construction costs on a striking warehouse-display building in Tacoma, Wash., to $8.10 per sq. ft.

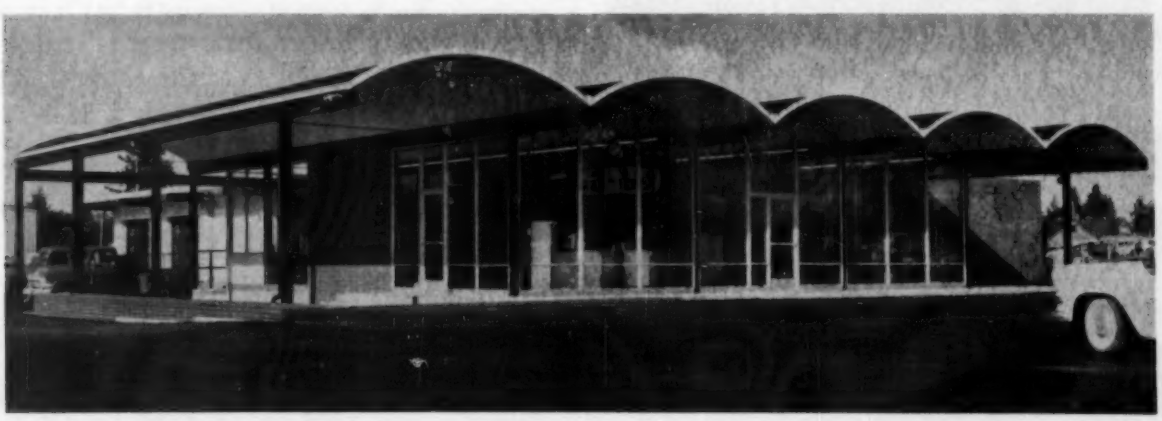
Requirements for the new Redi-Gas Company structure were: An attractive display room and retail sales area, wholesale warehouse space, general office space, purchasing and dispatching offices with truck-loading and service facilities. Further requirement: tight budget and construction schedule.

By specifying an arresting multiple-arch roof section, a simplified post and beam construction method and dual-purpose flat roof components, architect LeRoy Anderson met the requirements.

DOMINANT FEATURE of the building is the 5-bay vault roof over the retail sales and display room. Each vault section, spanning 16 feet, is composed of eleven 4-foot-wide arched stressed-skin panels, similar in construction to the flat panels, but only 1-5/16″ thick. Lumber framing was 1x3's. A ¾″ paper honeycomb is sandwiched between a 5/16″ top skin and a ¼″ bottom skin. Radius of the bend is 14 feet, forming a 30″ arch. These plywood panels were fabricated and installed by Panelbild, Inc.

WIDE-FLANGED STEEL POSTS on reinforced concrete footings support glue-laminated beams, 16′ o.c. Panelbild stressed-skin panels for the entire roof area eliminated need for rafters and trusses. The panels provided in one unit, a roof deck ready for finished roofing and finished ceiling. The building's entire rear section, housing general offices and wholesale area, was roofed with 105 flat panels, 4 feet wide and spanning 16 feet.

Less than three days of labor were required to ready the building for built-up roofing. Total cost of the 7870 sq. ft. building came to $64,000 or $81.10 per sq. ft. Fabrication and installation costs of flat panels was 79c sq. ft. and curved panels $1.10 per sq. ft. [END]



PANELIZED roof with hung ceiling, unique job San Leandro, Calif. Ceiling used 4x8 panels and was plastered.

Creating Sales With Engineered Components

Merchandising its service, and with it plywood, here is how Berkeley Plywood Co., Oakland, Calif., sold and installed 20 million feet of plywood during 1958. Plywood was in form of panelized roofs, nail-glued trusses, ply-vaults, ply-walls, stressed skin panels, curtain walls, ply-cleats, folded plates, box beams and floor underlayment.

TWO POINTS ARE BASIC in an observation of how the company successfully merchandised plywood: its business philosophy and its organization. Berkeley Plywood Co. is strictly a sub-contractor.

Sales manager W. P. Gilmore stresses the importance of close relationship with architects and engineers. BPCo., he says, has exerted considerable effort to maintain the sub-contractor relationship and so has come to be known by architects and engineers as a firm providing a singularly specialized service. Arriving at a solution and helping the architect and/or builder save money and at the same time get a better job, is part of the operating philosophy.

BPCo. installations result from three sources: First, sales leads which the company ferrets out; second, architects, engineers and management heads; third, companies which have already used BPCo. service.

FOUR SALES ENGINEERS report to Mr. Gilmore; three working out of the main office and one out of the Sacramento, Calif. branch. The Los Angeles office employs three sales engineers under Douglas Lohmar. In job estimating, the company gives its sales engineers the major responsibility. They often recommend the type of installation and submit an estimate in the field.

Results, Mr. Gilmore says, are more imaginative solutions and a greater awareness among engineers for new designs. It also results in faster service for the customer. Drawings and precise engineering computations are refined in the engineering department, but the job, if successfully bid, will usually be along the lines first envisioned and stated by the sales engineer.

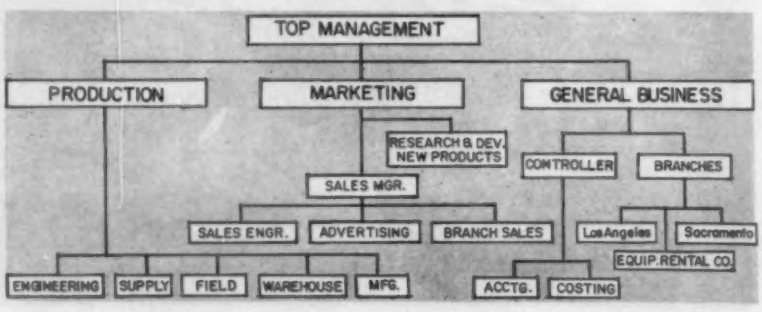
Mr. Gilmore cites a point of importance to the wood industry insofar as BPCo. bids are concerned. The company naturally is not always a successful bidder, but it is often successful in influencing the decision to use wood in some form over other construction materials.

TECHNIQUES in installations have been developed in two major directions: equipment and personnel. Equipment specially designed by the company is used in many instances for actual installations. Supervision of personnel in the work involved in BPCo. installations is handled by 20 foremen and key men.

Normally one man handles a job. In distant jobs, two supervisory personnel may be sent to the job site. At least

COMPANY ORGANIZATION has three main divisions under top management. Despite acknowledged rapid development of the company as it swung from distributor to engineered plywood firm, it has maintained flexibility, important to customer service. It means that when BPCo. sucessfully bids on a job differing from routine installations, all principals may have a hand in it. Warner Odenthal and E. C. Harter, top management, will be involved as will marketing director Henry Bacon and Leonard Odenthal, head of production.

Berkeley Plywood Organizational Chart



one of the company principals usually spends some time in pre-installation visits.

No time is lost on a project. There can be no time for breaking-in. The contractor expect BPCo.'s crews to step in quickly with top quality work on production basis matching earlier-started crews. BPCo.'s prefabbed components are installed with fast skilled crews, cutting costs.

DIVERSITY OF JOBS in both types and geographical locations, demands versatile foremen. A foreman may receive orders to be at a new job the next day 300 miles away| In many cases he will not have seen the drawings. Often he has only a telephone conversation. Yet his crew must produce right from the start.

To improve service, an assistant to Leonard Odenthal is an experienced engineer and former contractor. He travels steadily on job sites, keeps foremen abreast of the projects, provides drawings and helps in any way to effect closer and smoother liaison between foremen and main office. An accident prevention man maintains constant check on equipment and practices.

Special Equipment Developed

BPCo. has developed much of its own special equipment for production and installation. Some of these are:

Nails with barbed shanks and special heads; hangers for stiffeners, purlins and rafters; metal jigs for fabricating panelized roofs on the job; aluminum-framed conveyor to lift panels to working area; drive irons to get closer fitting T&G panels; electric screw guns and pneumatic nailing machines.

Heavy gear developed includes a boom truck and a lift-boom truck mounting; 3-stage telescoping boom; staging platform for raising loads of components; lift tongs. The company also pioneered in T&G installation of plywood, scarfs large panels. They have also designed jigs for curved Ply-Vaults that are gaining more architectural use.

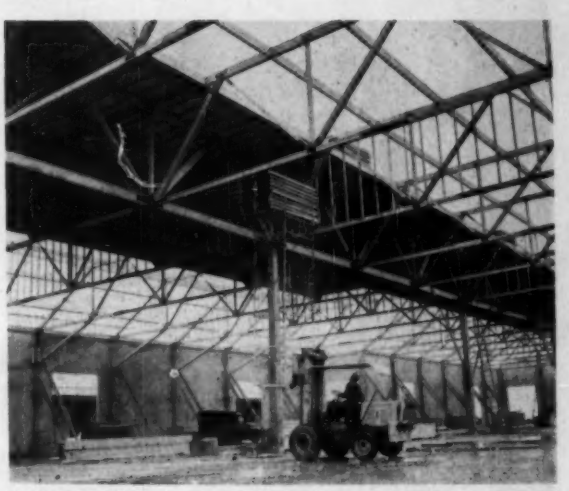
SCHEDULING in a major task involving job sites in a number of states at one time. Leonard Odenthal holds responsibility for scheduling of personnel and equipment. He coordinates these tasks with material supply to the job. A record sheet of each new job sold shows location, contractor and other pertinent data for dispatching proper crews, supplies and equipment.

BPCo. HAS CLEARED THE WAY for many applications of plywood as the result of its work with code authorities and its own research and development efforts. In code work the company works closely with the Douglas Fir Plywood Association. Their joint studies have been effective. The company does research on its own and much of it is supplemental to DFPA activity.

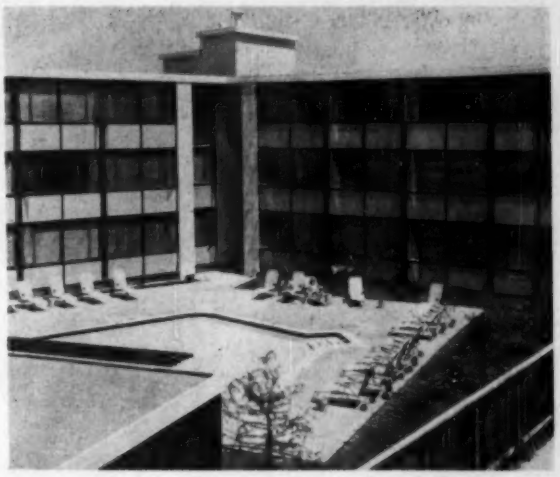
BPCo. PRODUCTS. The company installs panels from 4′x8′ to 8′x20′. Stressed skin panels are made in thicknesses up to 8″, and in lengths to 24′. Folded plates are made in spans to 30′ and lengths to 100′. Folded plates are are prefabbed at the plant. Larger ones, to save freight costs, are job fabricated.

Box beams, relatively new in BPCo. are engineered to 70′ lengths. Ply-Vaults, made mostly in Oakland or Los Angeles, have been produced mainly on 8′ diameters in lengths to 40′, but may go up to 60′. About 50% of the installations in industrial buildings use plywood cleats (Ply-Cleats) developed by the company.

BPCo. is today one of the outstanding merchandisers of plywood components, showing new uses and applications and proving that the job can be done attractively, effectively and economically. [END]



RAISING PANELS for roof of Owens-Illinois plant in Oakland, Calif. BPCo. installed purlines and panels raised with special 20′ lift.



CURTAIN WALL installation at Burlingame, Calif., apartment using plastic-faced panels of BPCo. Panels were painted over to finish.

PLY-VAULT INSTALLATION on residence by BPCo. A current commercial installation calls for eight of these vaults, each 40 feet long.

An Idea House of Components

box beams—vaults—stressed-skin—post and beam—2.4.1

CASE STUDY

THIS SPECIAL CUSTOM HOUSE, designed by the Los Angeles architectural firm of Buff, Straub and Hensman in association with owner Saul Bass, graphic arts designer, has been selected as a "Case Study" project by *Arts & Architecture*.

It is a big house in today's terms, with about 2200 sq. ft. of interior floor space plus covered carport and walkways. While it is suggestive of many design possibilities in terms of the architect's problem, this unit also has some lessons of major ecenomic import for the builder.

These center in the system of components used for the roof—a series of continuous plywood box beams, stressed-skin plywood panels and hollow-core, plywood vaults. The architects say that this phase of the construction has substantiated their conviction that shop-fabricated wood components are both economical and beautiful.

Says Cal Straub, partner in the firm: "Lamination, pressure glueing, plastic impregnation on surfaces and uses of plywood panels as load-bearing elements, are giving a new significance to this traditional material (wood), indicating its rational use as part of our contemporary vocabulary of structural techniques."

This is another way of saying that shop-fabricated wood components make sense from the standpoint of

money and time. If they are logical in a custom house like this, they should be more advantageous in production.

THE ARCHITECTS PLANNED the house carefully with a view to outdoor space immediately adjacent, middle distances and long skyline vistas. This was done by arranging the floor plan and roof surfaces around several courtyards providing both open and private exterior spaces.

THE FLOOR PLAN is organized into three major interior areas. One provides space for family living-living room opening into garden; dining room with both interior and outdoor space; kitchen and work center. To achieve privacy within the family, the parents' suite is separate from the children's bedroom wing. Further separation provided for designer-owner's studio.

Because the owner, operating on a fixed budget, was more interested in space than expensive and luxurious construction, the architects paid more than usual consideration to lower cost methods of construction on a house of this scope. The result is a simple post and beam structure with a flat roof relieved by a series of vaults that appear to "float" above their supports. In addition to shop fabricated components, the house relies heavily on inexpensive types of fir plywood.

The floor is partially slab and partially wood. The wood is 1⅛" fir plywood (2.4.1) which functions as a 1-piece combination subfloor and underlayment. The floor is laid over a wood framing system of 4' centers. Exterior wall surfaces are both Texture 1-11 fir plywood and resin overlaid fir plywood.

ROOF COMPONENTS perhaps form the most interesting part of the house. The beams are simply hollow, plywood boxes in three lengths—18'10¾"; 16' and 22'9". They span up to 16 feet forming a series of 8' bays and are 12" deep. They consist of two skins of ⅜" resin overlaid fir plywood applied with nails and glue to both sides of flat 2x4 top and bottom chords with 2x4 stiffeners.

The bays in turn are roofed with standardized flat stressed-skin panels consisting of 5/16" skin for roof decking and ¼" bottom skin for ceiling. Plywood was applied to 2x4 perimeter framing with insulation built in. Edges were tongue and grooved and slightly beveled for a more attractive joint.

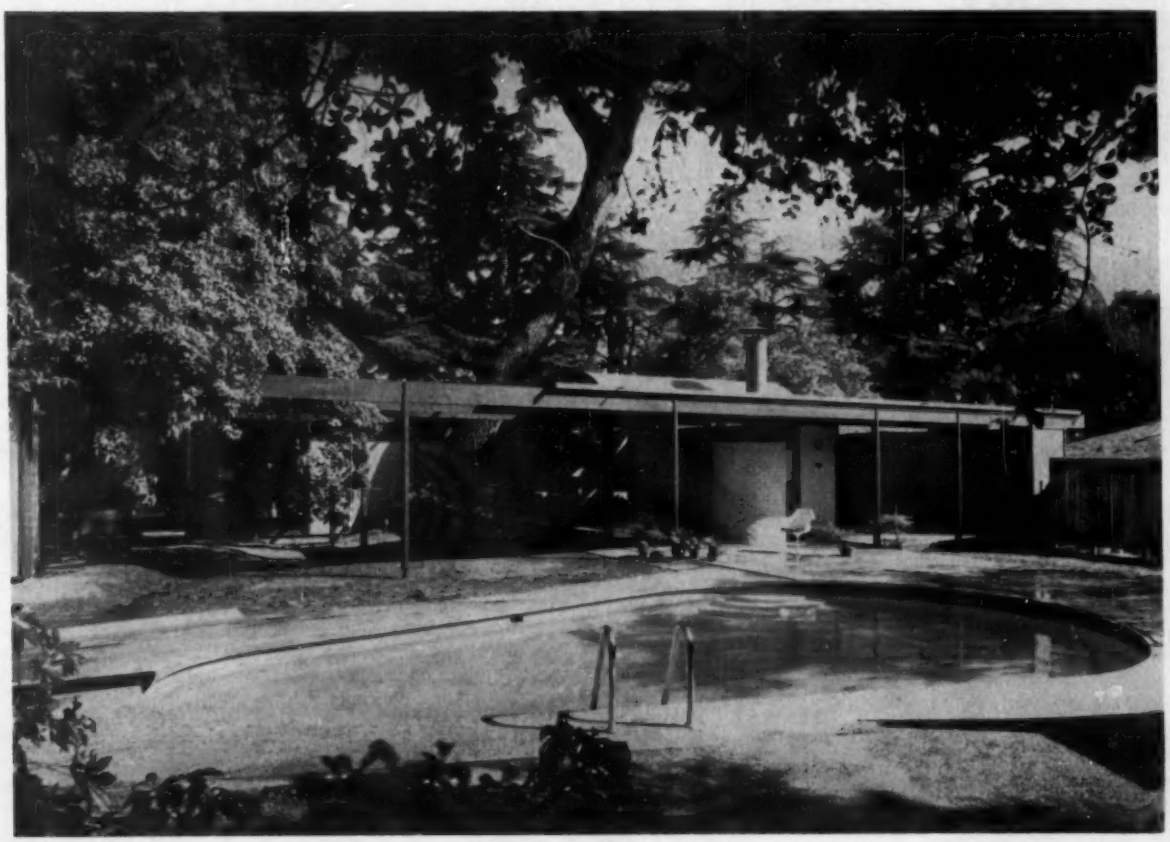
The vaults were custom built for the job on jigs, with top and bottom plywood surfaces of the same thickness as those in the flat panels and glue-laminated ribs.

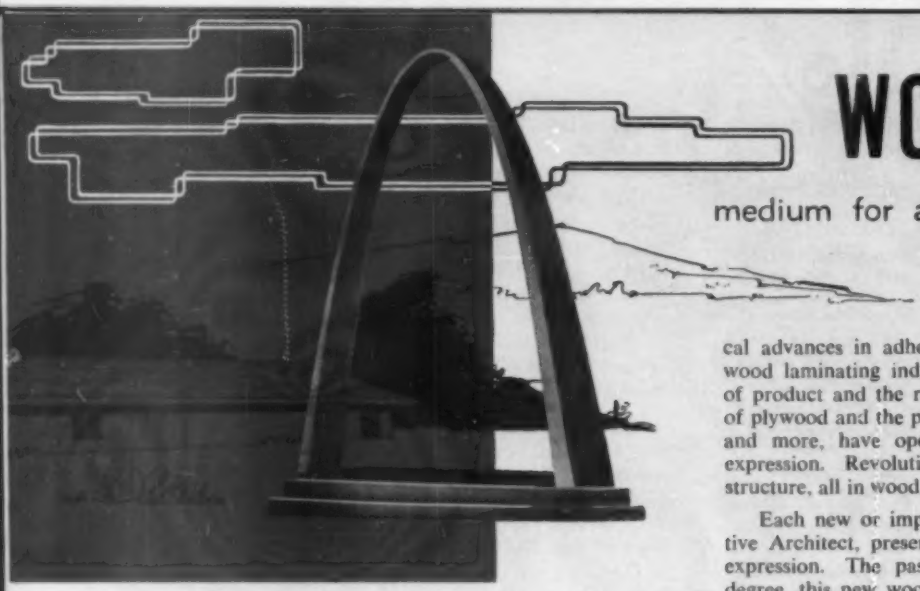
COST OF THE HOUSE was about $37,500 plus supplier subsidies of about $5000, making an index square foot cost difficult to determine. Figuring carport and walkways at ⅓, the architects compute the psf cost at about $14.00. This is more than reasonable for a custom house in this area.

Costs of all components manufactured by Berkeley Plywood Co., Oakland, Calif., included erection. The beams were $2 a running foot. They would have been $1.50 with a standard plywood surface without the overlay. The plywood provides a more sophisticated surface appearance and since the beams extended from indoors to outdoors, they were particularly desirable in plywood.

Cost of the flat panels was 40c a sq. ft., a figure comparable in the architect's estimate to low cost 2" T&G. However, the painted plywood surfaces were considered more attractive in this case. The vaults represent a low figure for this type of design relief. They ran 75c a sq. ft.

Douglas Fir Plywood Association was a co-sponsor of the house in an effort to determine the practical values of the plywood components explored in this design. [END]





WOOD...

medium for architectural expression

By Robert Billsborough Price, A.I.A.
Tacoma, Washington

SINCE THE DAY man first found need for shelter, he conceived and built this needed physical environment using materials readily available. Many factors, plus the materials locally procurable, conditioned the shape and form of the space required. The climate, the religion and the culture of the time and place are all design facets that played important roles in the design process.

As transportation and communication became more advanced, the peoples of the world became more aware of the building habits of others. Materials, before associated with a people or an area, have become obtainable world wide. The result: Architecture, to a great degree, is losing its "regionalism." To this writer this seems a loss of one of the fundamental truths of great architecture. Climate, religion and culture all, as in the past, should guide the hand of the designer in his quest for order and beauty. As in the past, the designer's hand should be guided by the medium with which he builds.

Today, I believe in the architecture of our time, we have again subscribed to these truths and are endeavoring to express them in our architecture. We are entering an era in which the architect is endeavoring to express the basic underlying principles that form the architecture. Material expression is of prime importance. Regardless of technology, the mechanization and standardization of this time, our buildings should express themselves to this generation and to future generations as honest material symbols of our culture.

A BUILDING OF WOOD should not simulate one of stone or one of steel or one of concrete. Each material has its own characteristics that are inherent to itself, and itself alone. An honestly conceived wood building should express itself in its structural form and detail; it should not be a steel or concrete expression. The potentials and limitations of all materials make it mandatory that the designer, for the fullest expression, re-examine his material and from this analysis should come an architecture as new and as daring as any yet conceived.

It can be asked why new wood solutions are possible today using one of man's oldest building materials. Today as never before, we are beginning to receive the benefits of industrial research in the lumber industry. The technological advances in adhesives, the great strides made by the wood laminating industry, both the continuing perfection of product and the research on the engineering properties of plywood and the potentials of particle wood material all, and more, have opened new horizons for architectural expression. Revolutionary shapes and finish, forms and structure, all in wood, are but dreams today.

Each new or improved wood product, to the imaginative Architect, presents a new challenge for architectural expression. The past few years have seen, to a small degree, this new wood architecture; an architecture whose form is based on today's wood technology.

The vault, once ponderous and massive, is now thin and graceful using laminated plywood. Folded plates, using plywood laminated internal members and glue, gain strength from one another to clear span distances clean and simple. Strips of wood glued under great pressure take soaring shapes, longer in span than a giant fir in height. Sheets of paper-thin wood are laminated to form skins with physical properties unknown to conventional dimensioned lumber. Laminated wood skins, spacers and glue form building components that require less material, span greater distances and do a superior job to that of conventional materials. This is today: The years to come will see wood structures that exploit to the fullest, wood in its various types, forms and shapes; to which man has applied his technology structurally, as well as aesthetically.

TO ACHIEVE THESE PROMISED RESULTS will require the best thinking of all those concerned. The architect, from whose mind a concept is born, must envision new and imaginative solutions to tomorrow's building problems. His study and dreaming should not end with what has been done, or what is being done; but rather, what can be done? "What can be done" requires the architect to acquaint himself with the properties and the potentials of wood in its numerous forms, the research that is taking place and the advancements being made by every phase of the lumber industry. The lumber industry should acquaint top architects with their research program, their objectives and their ambitions. In turn, top architects should make their desires known to industry, for without this stimulus, the inertia to do as before is often too great to progress.

The outstanding architectural periods of history were expressed in the material of the time and place. The heavy Egyptian stone monuments, the glory and beauty of Greece, the brilliant brick engineering achievements of the Romans, the soaring stone Gothic cathedrals of the 15th and 16th centuries and the grandeur of the Renaissance.

Today, the architecture of Mies van der Rohe is a direct expression of the inherent properties of steel; that of Le Corbusier, the use of concrete; and what of wood? This oldest and one of the finest building materials should not be relegated to a subordinate role in tomorrow's exciting building concepts.

ADVANCED THINKING, advanced planning and advanced technology, applied to wood, will produce a medium for architectural expression unsurpassed in quality by any material.

SCHOOL MODEL shows how four units cluster adjacent to large playshed. Three units have four classrooms each, one multipurpose.

Campus Plan School

uses butterfly folded plate roof

Terrain and budget governed architects Johnston, Evans & Parker in designing the Northeast Tacoma Elementary School, Tacoma, Wash. The situation was further complicated by an existing school on the site that would continue to function for several years. In a semi-rural site with a substantial slope providing excellent view, it is exposed to prevailing storm winds.

The architects decided on a campus plan providing an opportunity to ultilize existing terrain without expensive grading and the utilization of identical construction components for logical additions to the school when the older unit is removed. At the same time the campus approach is more easily scaled to the first, second and third grades which will use the new facilities.

Four units cluster adjacent to a large playshed which can be converted to classrooms as the need arises. Three of the units have four classrooms each and the other is a multipurpose unit; all depend upon standard building components making them identical in structure except for the multipurpose unit which has a higher ceiling.

The solution to the engineering problem presented by the shape of the units, is a combination of stressed-skin plywood panels engineered to function as folded plates in a straight-sided cloverleaf pattern. Because of complexities, the city's building department ran ⅛-scale loading tests in cooperation with Douglas Fir Plywood Association to resolve engineering problems. Consulting engineers were Smith & Murray; general contractor was Woodard Construction Co.

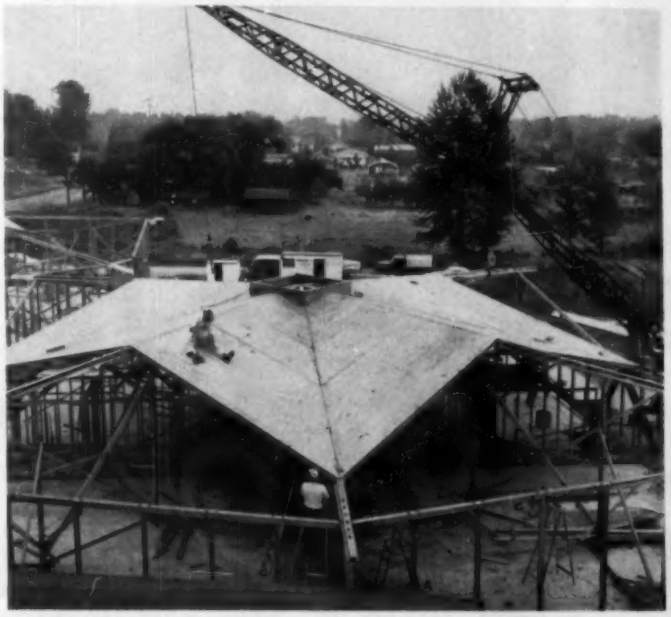
In each unit the roof is a series of folded plates composed of stressed-skin panels incorporating insulation. The panels are supported by 4x4 perimeter columns on four-foot centers and four steel frames that absorb the thrust exerted by the roof at the end points of the valleys. The panels were fabricated by Panelbild Systems, Inc.

Minimal glue-lam wood members at ridges and valleys were engineered to function as actual beams only during placement of the panels, after which the glue-lams work as tension connectors for the folded plates. This structural system provides a low-cost component roof applicable to all units, providing a clear span structure with unusual interior flexibility.

The result is a school with 19,354 sq. ft. let at a contract price of only $10.97 a foot.

All previous designs involving a folded plate in a wood medium have been worked out in a straight line series.

The buildings will be connected by covered walkways with plastic inserts, providing weathering protection. Sheltering wind screens will enclose outdoor corridors. [END]

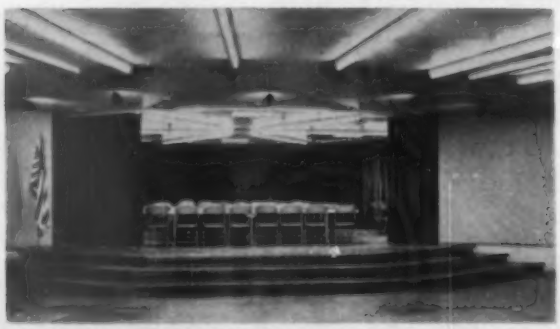


MINERAL GLU-LAM wood members at ridges and valleys engineered to function as beams during placement of panels. Glu-lams will then work as tension connectors for folded plates. Structural system provides clear span with unusual interior fexibility.

TOTAL ENCLOSED SPACE is 13,650 sq. ft. plus 800 sq. ft. for basement area. Outdoor covered area is 11,144 sq. ft., figured at half cost. Actual construction cost was $180,304, or $9.00 per sq. ft. for school of 20,002 sq. ft. Included was $19,800 for air conditioning (which figures $495 per ton compared with average of $600 for the area); and $14,220 for kitchen, hard-surfaced parking and walks. When architects fee of $10,818 is added, total cost of school ready for occupancy, was only $191,122 for $9.55 per square foot.

School of the Future, but in use today,

has many features that demonstrate flexibility of plywood circular design



THREE OF EIGHT classrooms open into central all-purpose room. Sliding partitions recess into storage cabinets so the classrooms may double as an auditorium. Ten rest rooms are around stage.

Of all schools built in this country in the past few years, Belaire Elementary School in San Angelo, Texas, probably comes closest to architects' and educators' concept of the school of the future.

This flexibility was possible to achieve because of mutual agreement on several basic concepts by the school's associated architects, Caudill, Rowlett and Scott and Donald R. Goss; G. B. Wadzeck, San Angelo's Superintendent of Schools; and the San Angelo School Board. These concepts are:

1. Educational needs are constantly subject to change. Therefore, the school's physical structure should be flexible in order to meet these demands.

2. The traditional classroom, with its rows of fixed desks, is old-fashioned, inefficient, and limiting.

3. A sense of enclosure and confinement is detrimental to learning. Hence, openness, freedom and light should characterize the school.

ADDITIONAL PROTECTION from the hot sun comes from unusually wide overhangs, 45 feet at the four corners of the square roof that surrounds the building. These are continuation of the interior ceiling. They are exterior-type fir plywood, painted and scored into 4′ squares. Support is by slender steel pipe columns.

4. Children learn best when comfortable and relaxed. This premise led to the decision to air-condition the school.

GENERAL DESIGN of the 240-student school, is that of a ten-sided pie with a square umbrella roof. The pie is cut into ten sections by non-loadbearing walls. Each of these sections radiates from a circular all-purpose room at the center of the building. Eight of the sections are classrooms; one is the kitchen; the other contains offices, reception area, teachers' lounge, and bookroom.

The school's exterior is glass, brick and masonry; interior walls and ceilings are largely fir plywood; floors are asphalt tile over concrete slab; roof is metal deck, fiberboard insulation, and built-up roofing.

AN ECONOMICAL SCHOOL to build, even with air conditioning, was due to several factors: Its compact shape, with plumbing, heating and cooling equipment concentrated at the center; the deliberate planning of as many dual or multi-purpose areas as possible; the design which permitted specification of light-weight, inexpensive materials.

FLEXIBILITY is the school's outstanding feature. This was achieved through the architects' use of interchangeable and movable partitions, and by their inclusion of four major areas which can serve more than one purpose. While most surfaces in the traditional classroom are useless for teaching, in the Belaire School practically every square inch of wall space is put to work.

Sliding, interchangeable, and disappearing partitions make it possible to convert a given area quickly to another purpose, or to combine two or more areas for an activity involving a large number of students.

Partitions are of three basic types, all with the same surface treatment.

THE TYPICAL PARTITION, used between most classrooms, has surfaces of removable 4x8 panels of chalkboard, tackboard, and pegboard, arranged in various sequences. The chalkboard is mounted on ¼" fir plywood, the tackboard on fiberboard backing which is cemented to ½" plywood. These prefabricated panels, and the pegboard panels, are fastened to the studs.

The other two types of partitions have the same kind of panel make-up. One, however, is in effect a twelve-inch-deep storage wall. On one side, panels are fixed, as above. Panels on the other side are sliding, to give access to storage space for folding chairs. The wall thus consists of a series of four-foot-wide compartments, with a fir plywood shelf three and a half feet above the floor.

The third type of partition is made of four sliding panels. All panels are on a sliding track so they can disappear into a compartment at the outer end of the wall, thus opening three classrooms to provide a large space for assemblies. These three classrooms are open to the circular all-purpose room.

The all-purpose room also serves as dining area, and is connected to the kitchen by a ramp. Except for this opening and that to classrooms 4, 5 and 6, it is walled with ½" fir plywood, scored vertically two feet o.c. The entire room can be closed off with a curtain for stage presentations.

THERE ARE NO FIXED DESKS in any classroom at Belaire. Instead, extensive use is made of study and work tables at which two or more children can sit, and which can be easily moved and combined into larger complexes.

All storage is provided by movable cabinets or space-saving built-ins, chiefly the former, all of fir plywood construction.

SENSE OF SPACE AND LIGHT is given by windows all along the outside wall, and glass set in above partitions between classrooms. There is maximum light and visibility on three sides of each room. The fourth side, which in the traditional classroom would be walled off from the corridor, is left open, with a low cabinet at each side topped with vertical pegboard louvers extending part way to the ceiling, serving as acoustic baffles.

There are actually no corridors in the school. Traffic from one classroom to another may be via the space surrounding the central stage, or across the stage itself, or around the outside of the building. Since each classroom has its individual outside door, in the center of its window wall, congestion at heavy-traffic hours is at a minimum. Skylights are over kitchen and stage areas.

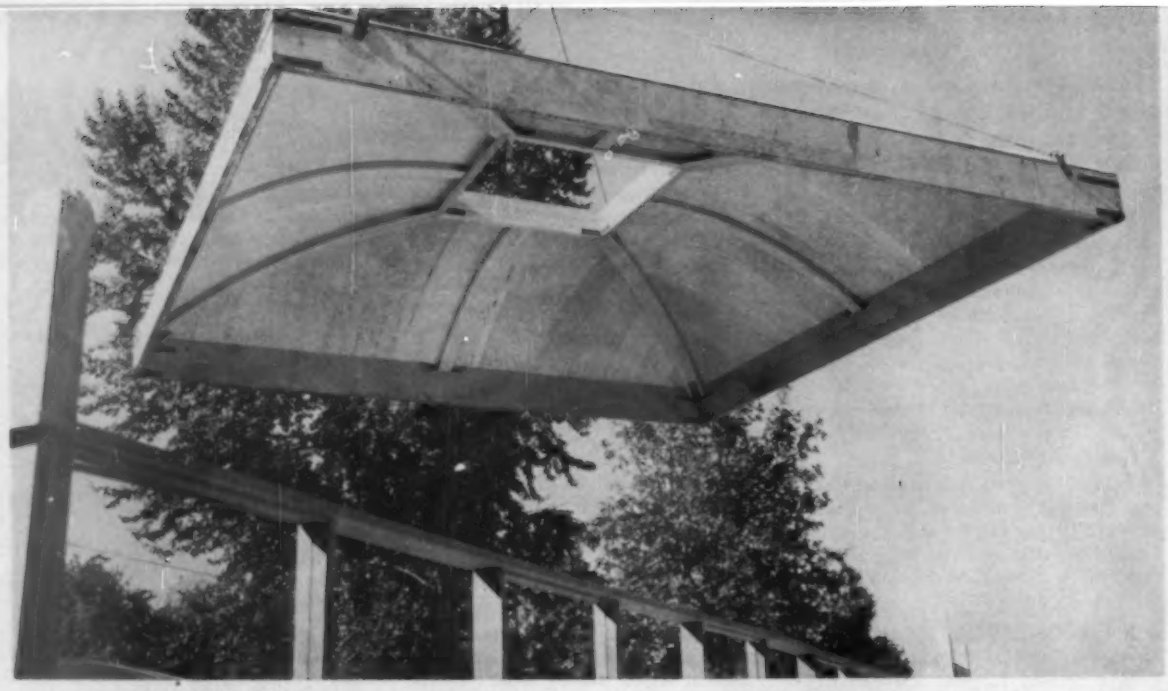
AIR CONDITIONING THROUGHOUT the Belaire School made educational and architectural history. Its design around a central core, primarily planned to provide flexibility for overall educational needs, also made it possible to incorporate air conditioning at a minimum of expense. The mechanical core, housing heating, plumbing and air conditioning equipment, is directly below the stage, in a minimum basement with its ceiling above ground and serving as the floor of the stage. Ten restrooms around the stage, are easily accessible from all classrooms. [END]

Architects for the Belaire School were Caudill, Rowlett & Scott; Donald R. Goss, associated architect. Structural engineer was A. M. Martin; mechanical engineers, Kenneth Eschman and Tippett & Gee. General Contractor was Burk Construction Company.

NO DOORS separate classrooms from corridors. Entire school has space, light and freedom. Flexibility achieved by non-loadbearing walls.

DESKS are movable. Work tables can be stored under windows. Books and materials storage cabinets, right of door, are movable.

FURNITURE of fir plywood, sturdy and light weight. Plywood built-ins. In background separate classroom for interior area.



EACH ONE-PIECE ROOF component is formed by four converging, curved planes made up of three layers of ⅜" laminated plywood panels, joined at the ridges with light framing arch rib. Additional stiffening ribs were required by local building office due to the experimental nature of the design. However, loading tests showed stiffening ribs not actually necessary.

Satellite School a promising answer

to a classroom problem is topped with domical roof

THE SATELLITE SCHOOL provides needed growth in classroom space without increasing burdensome overhead in the form of additional principals, clerks, library and other facilities, since the satellite functions as a branch of an existing larger school.

One of the most imaginative answers to the problem of satellite school design was provided by architect Robert Billsborough Price, A.I.A., of Tacoma, Wash., in the city's new Hoyte Elementary School, now under construction.

The design consists of a cluster of four classrooms and a multi-purpose building, carefully designed to fit the needs of the neighborhood. The design resulted from research by Mr. Price for Douglas Fir Plywood Association. Ideal application was found here.

The paired classrooms are clustered, in opposition to a multi-purpose building, across a central court in which existing trees provided natural landscaping. Both court and multi-purpose building are flanked by continuous walkways which tie the two dissimilar units into a single visual whole, relieved by the open court.

In the classroom cluster, two pairs of units face each other across a 14′ wide core area with facilities for coat and rest rooms. Floors are slab with asphalt and vinyl tile finish flooring. Walls are conveniently framed with fir plywood shear walls for lateral rigidity and plywood spandrels beneath glass areas.

The school provides a new and promising answer to the need for classroom space in older residential areas as well as newly developed residential sections, in cities throughout the country.

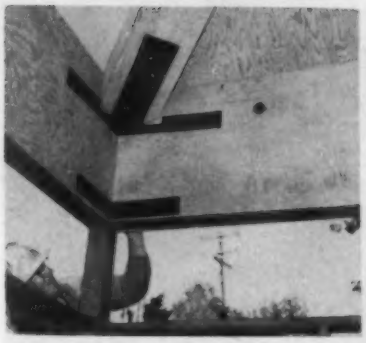
MULTI-PURPOSE BUILDING is 48′x44′. It is characterized by a roof line engineered as a series of plywood folded plates, providing a clear-span interior with a minimum of roof framing.

The free span is 40 feet. The roof is supported by structural sash members with anchor plates at each valley. Panels are bolted to anchor plates through 3x4″ stiffeners inside the panel. The roof slopes 1 inch for drainage.

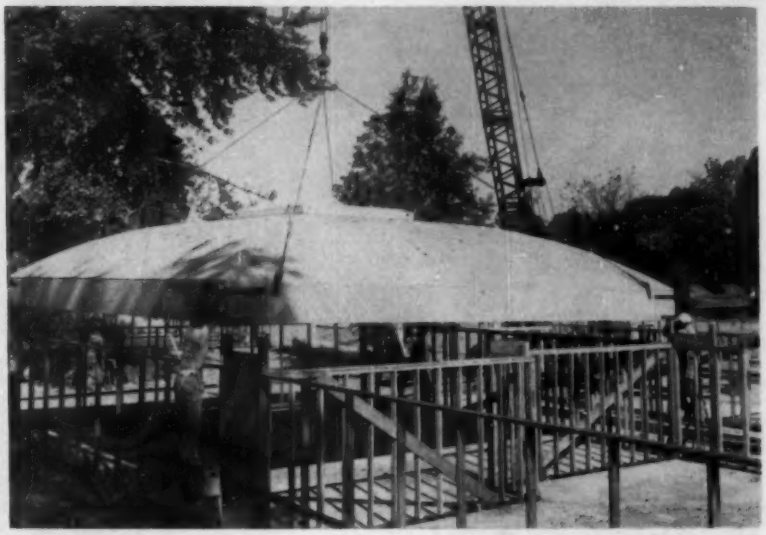
Walls are similar to those of the classroom building except for clerestory under the ends of the roof. One wall is decorated with 12′x48′ mural showing lively renderings of domestic animals and fish and animals native to the Pacific Northwest. The surface on which it is painted is medium density fir plywood.

Siding is Texture One-Eleven painted with a novel technique giving vertical emphasis and color contrast. The first white coat was sprayed; the second "gray" coat was applied with roller. This leaves the grooves white and the 4″ wide outer surface gray.

Finish roofing, here and on the walkway covers, is the same vinyl membrane used on classroom building. Walkways are sheltered by flat canopies formed by simple shop-fabricated stressed skin panels. Shop fabrication was done by Panelbild Systems, Inc.

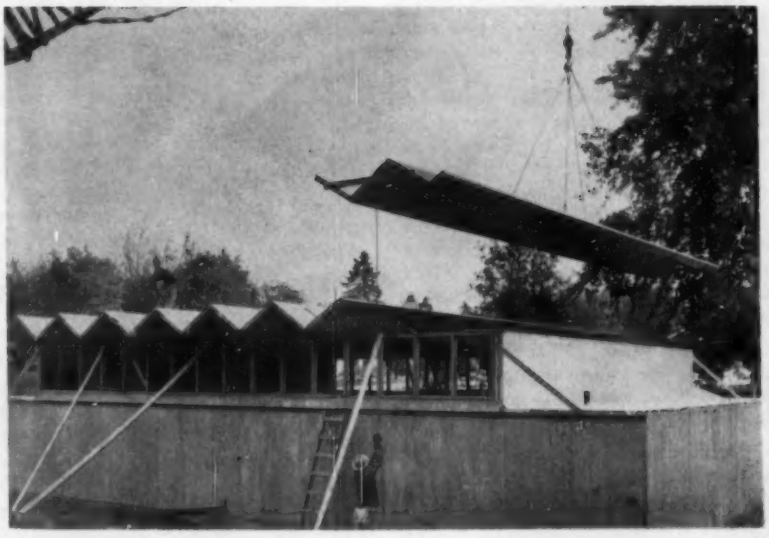


DOMICAL SHAPES are formed at base with plywood box beams, an inherent part of the component. Beams consist of ½" plywood webs, solid lumber flanges shaped at top to take edge of roof shell. Primary roof weight is taken by the 4"x4" posts.

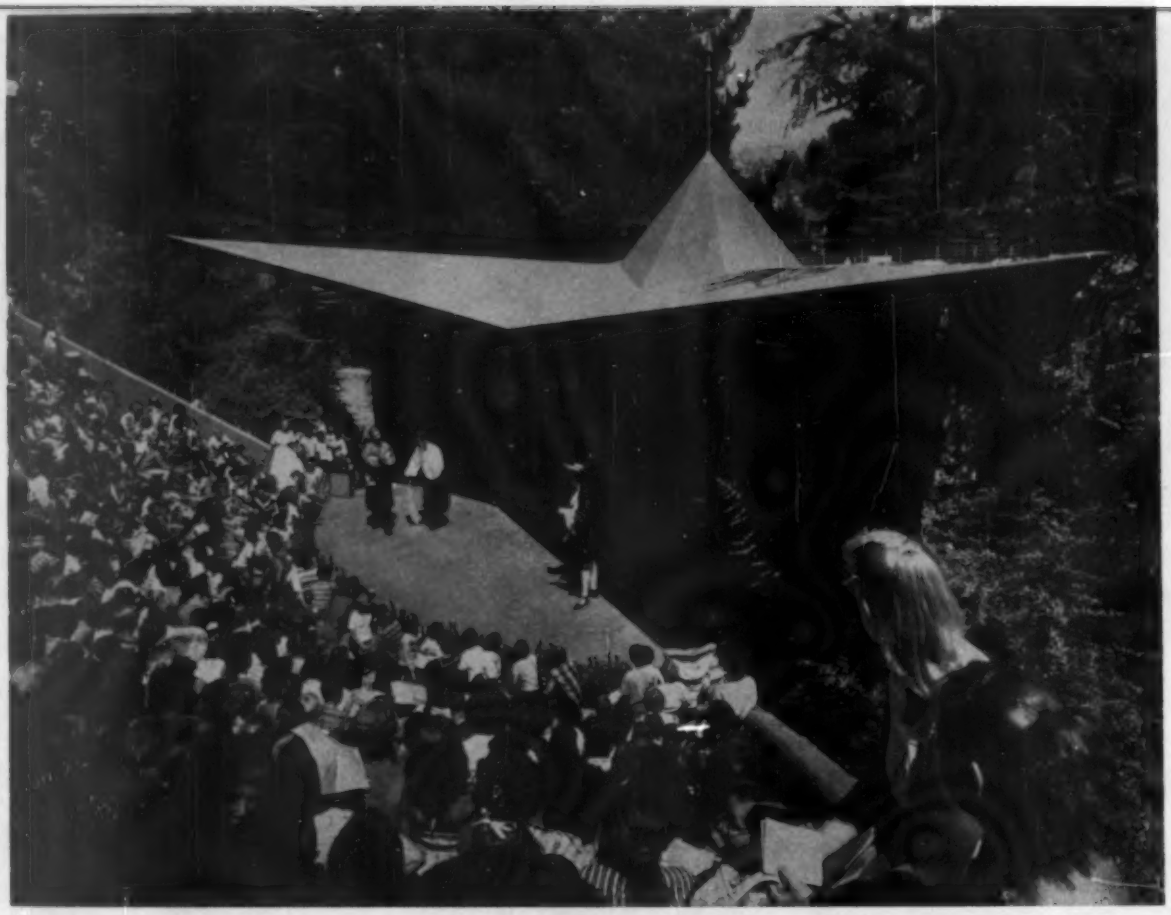


TOP RIGHT: Laminated plywood shell sections with attached beam units were shop fabricated and assembled at the site, into total roof component. Completed units were positioned by the crane secured to corner posts.

CENTER RIGHT: Exterior surface was sprayed with Vinyl membrane coating, eliminating conventional roofing and metal flashings. Alternate sections of domes were painted orange and white. Sky lights are blue. Stressed-skin panels cover walkway.



FOLDED-PLATE ROOF for multipurpose building is formed with "W" shaped, shop-fabricated sections. Each plane is a 48' stressed skin panel with ⅜" skins; total panel thickness is 3¼". Panels are bolted together at the peak and alternate valleys have bolted butt joints and bolted triangular chord members. [END]



Star-Shaped Roof Tops Children's Theater

THE DRAMATIC, FOUR-POINTED star-shaped roof of the new Arroyo Viejo Children's Theatre in Oakland was designed by Oakland architect Irwin Luckman to stimulate children's imagination without being representational. Too many children's theatres, Luckman feels, represent English Tudor castles, appropriate backgrounds only for knights and ladies.

The theatre is unusual for several reasons besides the novel roof design. For one thing, the roof went up before the walls were erected, after having been prefabricated in sections. It is a stressed skin structure of fir plywood, each section made up along the lines of an airplane wing. Another architectural challenge was the necessity to build the theatre over a creek, which divided the stage front to back with a 16½-foot gap.

One of several children's theatres being built by the city's recreation department for free performances by and for young people, the structure is located against a background of pine trees in a park-like setting at Arroyo Viejo recreation center in East Oakland.

The job called for construction of an enclosed building on the site of an existing concrete 550-seat amphitheatre with tiered benches in good condition and a semicircular back wall.

Architect Luckman attacked the problem by designing a bilaterally symmetrical roof in the form of a four-pointed star. Removal of the concrete rear wall left a stage some 30 feet wide. The creek, running between concrete retaining walls, was bridged with spaced decking so that rains could run through.

PREFABRICATED ROOF SECTIONS were fabricated and installed by Berkeley Plywood Company. Prefabbing eliminated scaffolding and other difficult and costly impedimenta connected with building in place.

Eight roof sections, of which the longest dimension was 38feet, were built at Berkeley's Oakland plant. Interior framing of each section is of 2x3's and 2x4's with plywood gussets. C-D grade PlyBase, ⅜" thick, was used for paneling both the top and the underside. Fir plywood was specified by the architect to achieve greater total structural strength with a minimum of weight, to permit following unusual angles, and because it lends itself to prefabrication.

Set up on the ground to check final fitting, the sections were temporarily bolted together by leaving the points of the star open until the rest of the bolting was done, then covering them as fitting was finalized. A workman crawled into each section of the star to secure them into one unit. Once the roof was trimmed and fitted, it was disassembled into four double sections, each measuring about 22x38 feet, and weighing close to a ton. With a police escort, the sections were moved through the streets to the recreation center, on flatbed trucks.

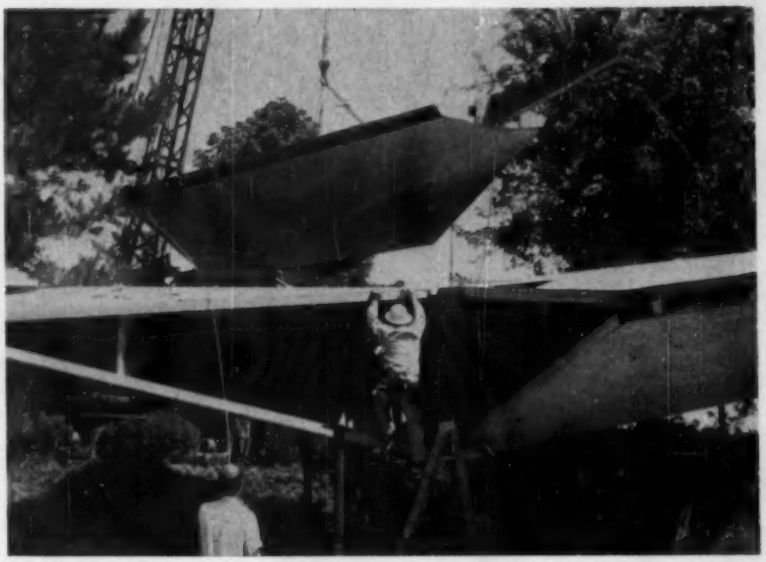
The roof was hoisted into place by a mobile crane with a 150-foot boom. Supports consisted of eight 3½" o.d.

steel pipe columns set up independently of the walls—four at the inner hub of the star and four midway out beneath the bottom ridge of the double V'd roof. As each section was added the roof gained rigidity until it became a single rigid structure. The design had previously been laid out on the site with string so that, as it was worked out, only a very few tree limbs had to be sacrificed to provide clearance. As a result, the structure looks as if it had been there all along and the trees had grown up around it.

Topside of the roof was covered with Flintkote emulsion with glass cloth imbedded in the emulsion to avoid the ridges of built-up felt, which would have conflicted with the lines of the roof. The underside was patched and sanded and painted with Plasti-Bond texture paint after sealing. Color of top and bottom was light buff.

To add further emphasis to the star as the focal point of the action taking place beneath it, the roof was surmounted with a fir plywood cupola supporting an ornamental shaft of steel 1½ inches square.

Covering an outline of some 1,500 square feet, the roof used approximately 4,000 square feet of fir plywood.



WEIGHING A TON each, 22x38' roof sections were hoisted into place before theater walls were built. Sections resembled airplane wings. Pine columns support roof.

STAGE DESIGN included an ingenious rotating backdrop extending 18 feet across the stage, which is 22 feet wide between the wings. The backdrop consists of six pylons on either side of the stage. These are equilateral triangles in cross-section with each side of the triangle an 18-inch wide panel of fir plywood. Height varies from seven to eight and a half feet to follow the upslope of the roof. Pylons are mounted with Lazy Susan hardware and rotate manually so each can present one of three different faces to the viewers. A series of hasps hold them in the selected position. The three faces are painted blue, orange and yellow so that three different solid-color backgrounds (or any combination) can be presented. Scenery can also be changed from behind by mounting it on the strips.

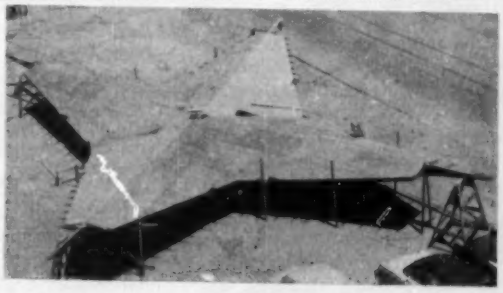
On either side of the building, which encloses about 500 square feet, diamond-shaped fir plywood planter boxes 7x18 feet are cantilevered out over the creek to repeat the form of the roof. Hinged pairs of 3x8-foot ¾" fir plywood panels were installed over the planter boxes for light and ventilation.

Ten-foot plywood doors were placed at the wings to provide for the storage of scenery. There are no true doors or windows as such, since the building was designed to be sufficiently weathertight.

Angular walls framed with 2x4's 16 inch o.b. were paneled with tongue and grooved redwood with horizontal blocking 24 inches o.c. Siding is 1x6-inch clear redwood, channel grooved. It is unfinished inside. At the four corners, pairs of four-foot walls meeting at an angle of about 110 degrees are sheathed with ⅜-inch fir plywood and serve as shear panels.

Sectional, movable steps of plywood rest at the bottom of the stage and can be arranged as desired.

The builder was Karl Ronnkvist of Oakland and the engineer was Allen McKay of Berkeley Plywood Co. [END]



PREFAB sections were bolted in place for final checking and trimming. Then dissambled into 4 parts and trucked to site.

◀ ROOF SECTIONS were fabricated on the ground at Berkeley Plywood. Top and bottom skins are ⅜" C-D plywood with 2x3 and 2x4 framing

Plywood Pagoda enhances company pool

THIS PAGODA-LIKE PAVILION of plywood graces a swimming pool for employees at the new $3 million headquarters and laboratory of Stuart Company, Pasadena, California.

Architect Ed Stone of New York and structural engineers Pregnoff & Matheu of San Francisco achieved the "floating" quality by joining ten fir plywood hyperbolic paraboloids on a steel frame.

The maximum length of each segment from roof peak to the extremity of the overhang is 30′, and the maximum width is 15′ along the surface. The long edges are reinforced by 4x8 wood members and 8″ steel tees.

The total roof surface is 1,970 square feet. Segments were bolted together and supported by ten 8″ columns on the circumference of a 36′-diameter circle. The columns are spaced on 12′ centers. A 12″ steel pipe column is the center support.

Economies dictated specification of fir plywood for the structure. The material was highly flexible and provided a feeling of airy lightness difficult to obtain with heavier materials. Three dollars per square foot covered costs of jig, material, labor, transportation and erection. Engineers of the fabricator, Berkeley Plywood Company, Oakland, California, feel that in where paraboloids don't require that pieces to be bent to such a tight radii, the in-place cost of plywood paraboloid could be as low as $1 per sq. ft.

Each paraboloid unit was made up of four layers of exterior-type fir plywood. The outside layers were one-side resin overlaid panels with the overlay exposed. This is plywood with a medium density resin-fiber surface cured under heat and pressure. It provides a smooth, solid plastic-like surface providing superior paint base.

Construction steps are these:

1. Two-by-sixes were fastened in a paraboloid-shaped jig with nails and framing anchors, forming a rigid base that wouldn't alter as plywood was molded and fastened to it.

2. Cardboard templates were cut to the approximate shape that plywood would be able to assume, and plywood templates were then made from these.

3. The first layer of overlaid plywood was cut from the plywood templates with a router and fastened to the jig frame with spot nails. Where the radius approximated the six feet near the apex, a large number of nails was required to hold the shape, and pieces had to be cut small.

4. Templates for the second skin were made by laying cardboard on the first skin. Plywood templates were then made for plywood pieces, which were fastened to the first skin with resorcinal glue—with spot nails to develop glue pressure. The third and fourth skins were similar.

5. After the unit was cured for 24 hours, it was removed from the frame. Ends of the spot nails were clipped off and the ceiling-face was sanded lightly. The unit was then tested by fastening the tapered end to a beam and supporting the two lower points on blocks. For testing, one hundred-pound weights were suspended on two-foot centers, giving a uniform load of about 25 pounds per square foot. Deflection was negligible.

6. Ten units identical to the prototype were then constructed and sent to the building site where they were installed on a steel framework and received reinforced fiberglas roofing.

[END]

CABIN has only 432 sq. ft. but is spacious. Connecting built-in seats with table at either end put one entire wall to work. Foam rubber cushions converted into beds. Has bathroom with sink, toilet and shower. Cost of cabin included built-in furniture.

CONSTRUCTION is based on standard-sized fir plywood panels and ordinary lumber. Extra bunk house doubles sleeping accommodations for only a few hundred dollars over $1500 cabin materials cost. Deck connects bunk house of vacation cabin.

The Booming "Cabin Fever" Business

WEEKEND AND VACATION STRUCTURES are fast becoming the "second home" and a part of the way of life of increasing numbers of Americans.

For instance, more than 16,000 readers of the magazine WOMAN'S DAY were interested enough in an inexpensive "dream cabin" to pay 25c for a set of the plans. The response was quite surprising when one considers that the magazine's main readership is middle income.

Another straw in the wind was the consumer requests the Douglas Fir Plywood Association received last summer for its 12-page booklet, "Leisure-Time Homes of Fir Plywood," containing 20 cottage and cabin designs.

It is obvious that architects will be concerned with vacation homes on a custom basis.

FIRST COSTS. Designed by architect George Matsumoto of Raleigh, N. C., the structure can be built for about $1,500 in fir plywood and other lumber dealer materials. Actual construction in the wooded hills of North Carolina was completed at this figure.

To hold costs down, Matsumoto relied on a simple four-foot module adaptable to fir plywood. The lumber and plywood elements in the cabin are combined in such a way that there are no load-bearing partitions.

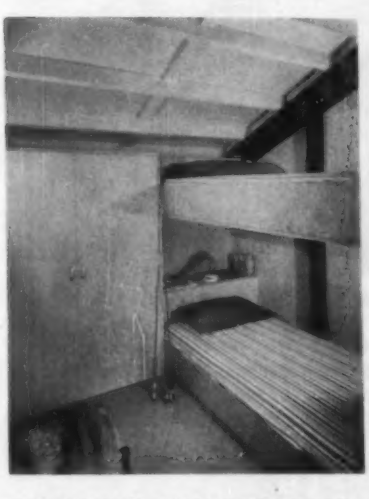
INSIDE SPACE

Despite the limited size—432 square feet of floor space inside—these features give a feeling of roominess and make for efficient use of space:

1. Two walls contain large glass areas, one of them opening to the wide covered deck, a perfect spot for outdoor lounging and dining.
2. The ceiling follows the line of the steeply pitched roof.
3. There are no partitions except around the bathroom.
4. Basic furniture is built-in, saving valuable space in the living area. The sleeping area is a raised 6'x12' platform with built-in storage walls on either side. Foam rubber cushions which serve as seats by day are pushed together at night to make floor beds.

And—one or more bunk rooms can be added in keeping with the design for only a few hundred dollars more per unit.

THE CABIN is designed to rest on a limited number of piers which are easier to handle than continuous footings and more adaptable to varying site conditions. Diagonal bracing rising from the piers to the roof-line provides structural rigidity and an unusual design. [END]



ATTACHED BUNKHOUSE blends well with overall design of the main cabin. The bunkhouse sleeps four and can be added for about $295 per unit. Interior walls can be left unfinished if desired.

STRUCTURAL MEMBERS are exposed, speeding construction time and form attractive pattern inside and out. Dining a rolling counter at right. Undercounter storage for dishes. Kitchen is 12' wall to wall counter. One of tht unique features is the roof in which fir plywood panels with a highly paintable medium-density overlay are used like giant shingles to eliminate the need for expensive built-up roofing.

Shaped Bents form this

distinctive, low-cost church structure

LARGE SIZE of bent sections made necessary joining at site. Fastened at the haunch with steel plates and bolts, temporarily braced, they were lifted by crane and joined at the ridge with steel putt plates and bolts.

Bent Dimensions

Ridge to overhang is 27-ft. 9-in. The "out to out" span is 40 ft. Overhang is 7-ft. 2-in. Webs of bents glue-nailed to chords are 1⅛" plywood.

An unusual, low-cost structural member was used by Architect Joseph Esherick, for a Unitarian meeting hall in Palo Alto, Calif. The idea involves shaped bents which derive a maximum of strength from a minimum of material with plywood plates. The tapered bents also produced a delicate and distinctive shape.

The hall will first be used as a church and then as a general purpose room after a regular church is built, so low cost was a must. Also, the congregation wanted a rustic interior, which exposed bents provided. The hall is 43'x121' with roof pitch of 3½" in 12".

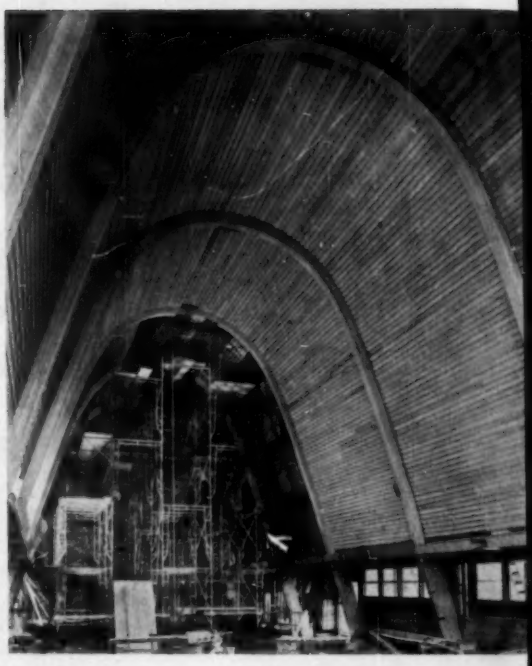
The bents form the basic skeleton for the central portion of the building. Single thickness plywood beams with lumber flanges are used at each end, where the roof is lowered, and on six smaller buildings that cluster nearby.

Fabrication and installation costs of the five bents totaled $3548 or about $700 apiece. Vance Brown & Sons, Palto Alto, sub-contracted this aspect of the job to Berkeley Plywood Co. Total construction cost for the seven buildings, totalling 12,500 sq. ft., was $155,000.

Walls of all buildings were sheathed with ⅜" fir plywood under cedar siding on the exterior and cedar-faced plywood inside. Subfloors are ¾" T&G fir plywood laid over 2x6's on 16' centers. Joists are supported by 4x6s on concrete piers five feet apart. Finish flooring is *Mastipave* and *Durawood*. Bents and ceiling were stained.

FIVE BENTS were erected on 10' centers. 3x6 t&g was nailed directly to bents and covered with ¼" fir plywood at base for built-up roofing. Webs of bents, glue-nailed to lumber chords, are 1⅛" fir plywood, tapering out from footing to haunch and tapering down from haunch to ridge. Lumber and plywood were left unsanded in accordance with congregation's desires. Maximum strength from minimum of material was realized.

TYPICAL ROOF SUPPORTS for ends of hall as of other six buildings are single thickness plywood beams. They are 2'8" high with an 1⅛" plywood web glue-nailed to a 2x8 on each side for upper and lower chords. Stiffeners were 2x4 on 4' centers. Span is 33'. Beams erected on 10' centers. 4x6 purlins on beams are on 5' centers supporting 1⅛" 4x10 B-C fir plywood panels, t&g on long edges. This results in a solid diaphragm. [END]



FINISHED INTERIOR of St. Matthews Church shows unusual design of ceiling using sheathing skin and rough batten between arches. Lower walls are dry-wall construction. Furniture is walnut veneer. RIGHT. Construction view of interior vault 1x4 rough fir boards being spaced 1" apart. Exterior sides are vertical.

Extensive Use of Exterior Sheathing

holds costs at minimum and provides outstanding church structure

WHEN THE CONGREGATION of St. Matthews Episcopal Church in Portland, Ore., decided to build a church with a seating capacity for 400 people, and moved from their former church seating only 75 people, it was a real strain on the budget. Costs were important and yet they wanted an unusual church.

When architect Don Byers, Portland, was assigned the job, he designed a wood frame construction building using a total of 42,400 sq. ft. of plywood to help keep costs and construction time at a minimum. Overall size of the church is 144'x67', supported by 7 glue-laminated arches 35'x35', supplied by Timber Structures, Inc.

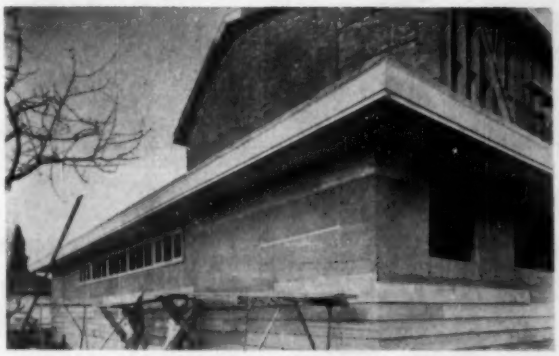
Exterior fir plywood sheathing was used for bracing. 9100 sq. ft. 3/8" was used for exterior sheathing. Fir siding of 1"x6" SIS boards and 2"x6" battens, vertical, and 1"x10" cedar lap siding, horizontal, rough side out were used. Siding was stained with Cabot's creosote stain and interior rough siding in the vault was stained with oil pigment.

Interior surface of the arch was covered with a skin of 7000 sq. ft. of Exterior grade sheathing with 1"x4" rough fir boards spaced 1" apart over the sheathing. Roof required 10,500 sq. ft. of 1/2" plywood sheathing; Soffits used 2000 sq. ft. of Ext. ACC 1/2" panels. Subflooring utilizing the same panels used for concrete forms, required 9000 sq. ft. of 5/8" and 1300 sq. ft. of 1/2" panels. An additional 1200 sq. ft. of 3/4" finish was used.

Birch plywood was used for all cabinets in the Sacristy and office and for kitchen cabinets in the basement. Floors are oak and all furniture was of figured walnut veneer, designed by the architect.

Total usable floor space including church floor and basement is 14,905 sq. ft. Total cost per sq. ft. was $9.62, a little over $143,000 for the entire structure. Wilson & Dean, Portland, were general contractors. [END]

EXTERIOR wall construction shows horizontal application of panels and vertical battens.



EXTERIOR WALL of Sacristy and office area is finished with cedar 1x10 lap siding over plywood sheathing.

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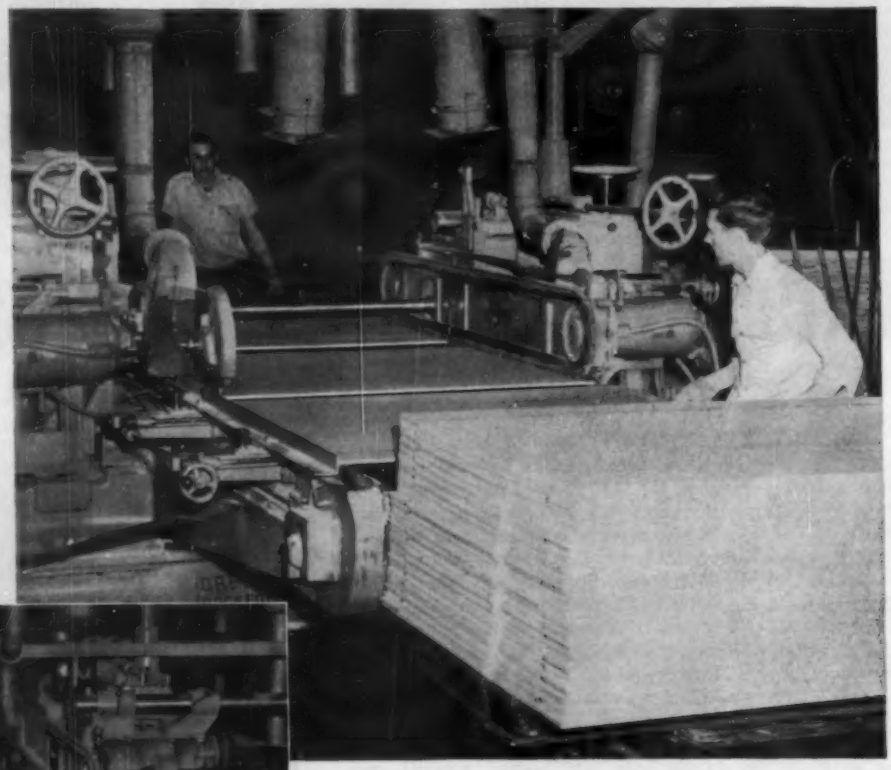

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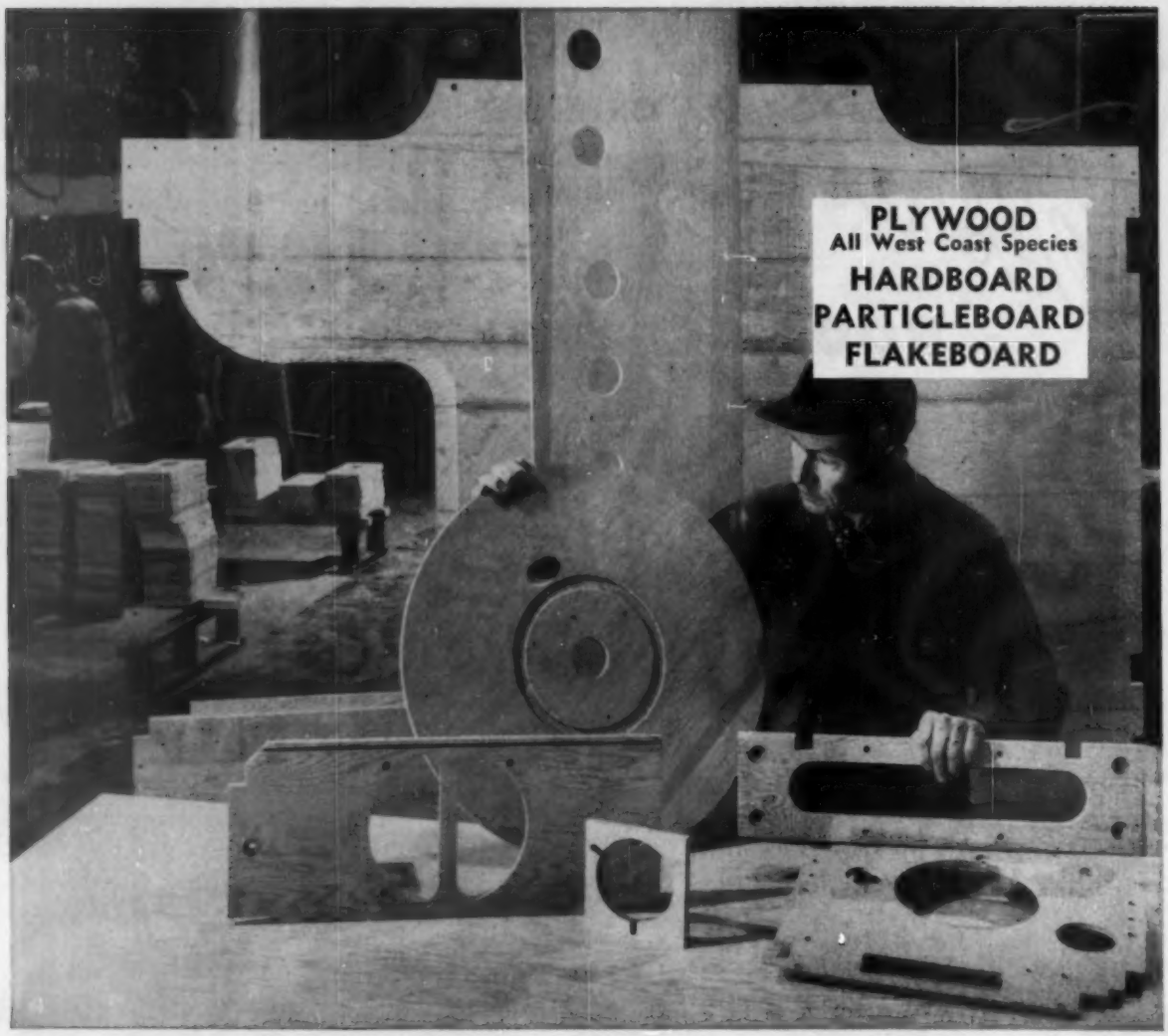

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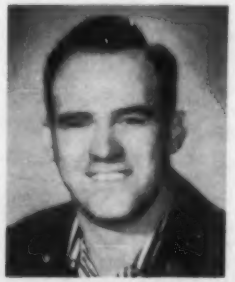
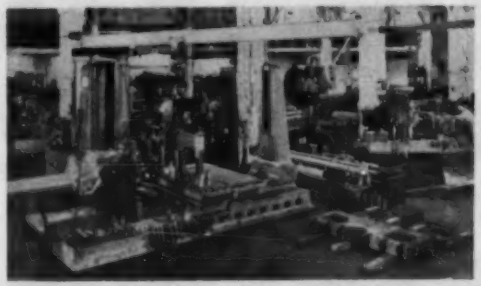
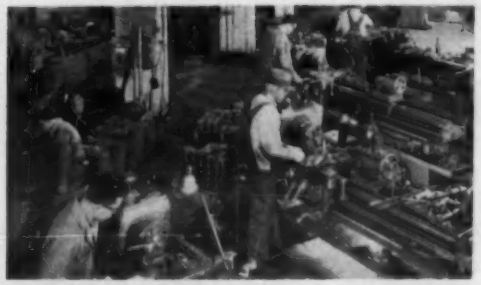


DAVE TEODORO
Shop Supt.





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In response to the demands of modern industry, Cascades Plywood Corporation adheres to the most rigid standards in every phase of plywood manufacture, in order to meet or exceed the requirements of users. Our Quality Control program features four strong points of quality analysis:

Distributed nationwide by
UNITED STATES PLYWOOD CORPORATION
The World's Largest Plywood Organization

Randomized Inspection
Inspectors on all shifts spot check for quality from the green end to the final boxcar loading.

Laboratory Test
Glues used in Cascades Plywood are subjected to exacting laboratory tests to insure a lasting bond. Cascades Plywood will not delaminate within the requirements of commercial standards.

DFPA Inspection
Cascades Plywood is inspected by Douglas Fir Plywood Association inspectors and must meet their stringent specifications on all points.

Grading
From log to dryer outfeed, careful grading and rejection of defects assure that only top grade Douglas fir is used in Cascades Plywood.

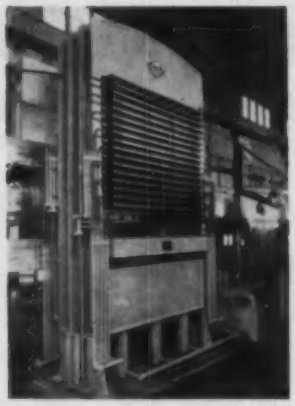
CPC

Cascades Plywood Corporation

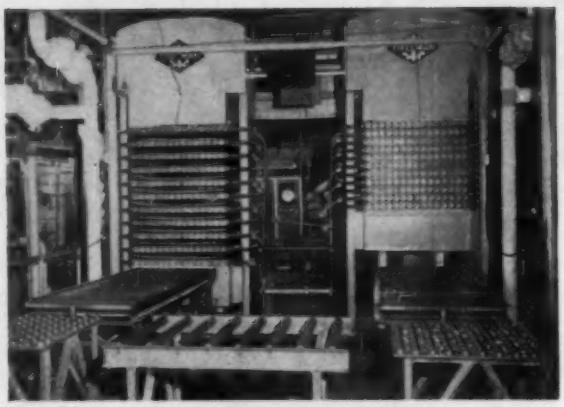
PUBLIC SERVICE BUILDING
PORTLAND 4, OREGON

VENEER | PLASTIC | PARTICLEBOARD HARDBOARD | ALUMINUM

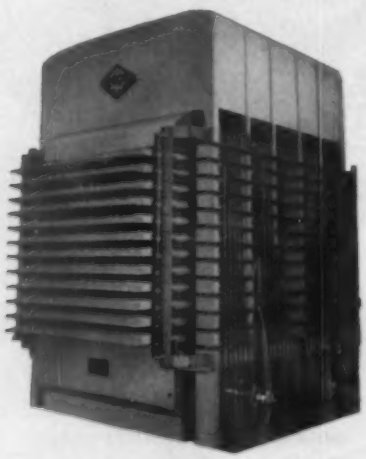
For Every Pressing Requirement — Hot or Cold



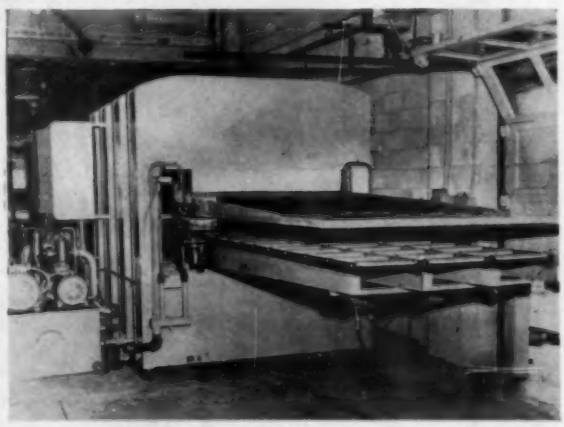
Veneer and Plywood: Presses available 1 to 24 openings in platen sizes up to 90" x 300", up to 350 PSI over entire platen area. Recent installations: Weyerhaeuser Timber Co., MacMillan & Bloedel, Ltd., Evans Products Co., Oregon Veneer Co.



Plastic: Presses available 1 to 24 openings in platen sizes to 66" x 150", up to 1600 PSI over entire platen area. Recent installations: Vinyl Plastics, Fabricon Products, Fiberesin Plastics, Albano Co. Virtue Bros. Mfg. Co., McNeff Industries.



Particle Board, Chip Board, Etc: Presses available 1 to 24 openings in platen sizes to 66" x 150", up to 1600 PSI over entire platen area. This Fjellman-American hot press is capable of producing the finest particle-type board by wet or dry processes, either chip, flake, shaving or fibre.



Automatic Press Loading-Un-Loading: Auto-Loading Shuttle Feeder makes short work of the loading cycle. Permits doubling present output. Raw materials and finished pieces are shuttled simultaneously to opposite ends without interruption — with minimum crews, reduced idle press time and reduced handling costs.

Minimum tolerance Laboratory presses up to 3000 PSI over entire platen area for manufacturers' research in producing all types of wood, chip and plastic lamination. Aluminum gluing presses for any production requirement.

Write for latest catalog giving application and technical data on the complete Fjellman-American line.

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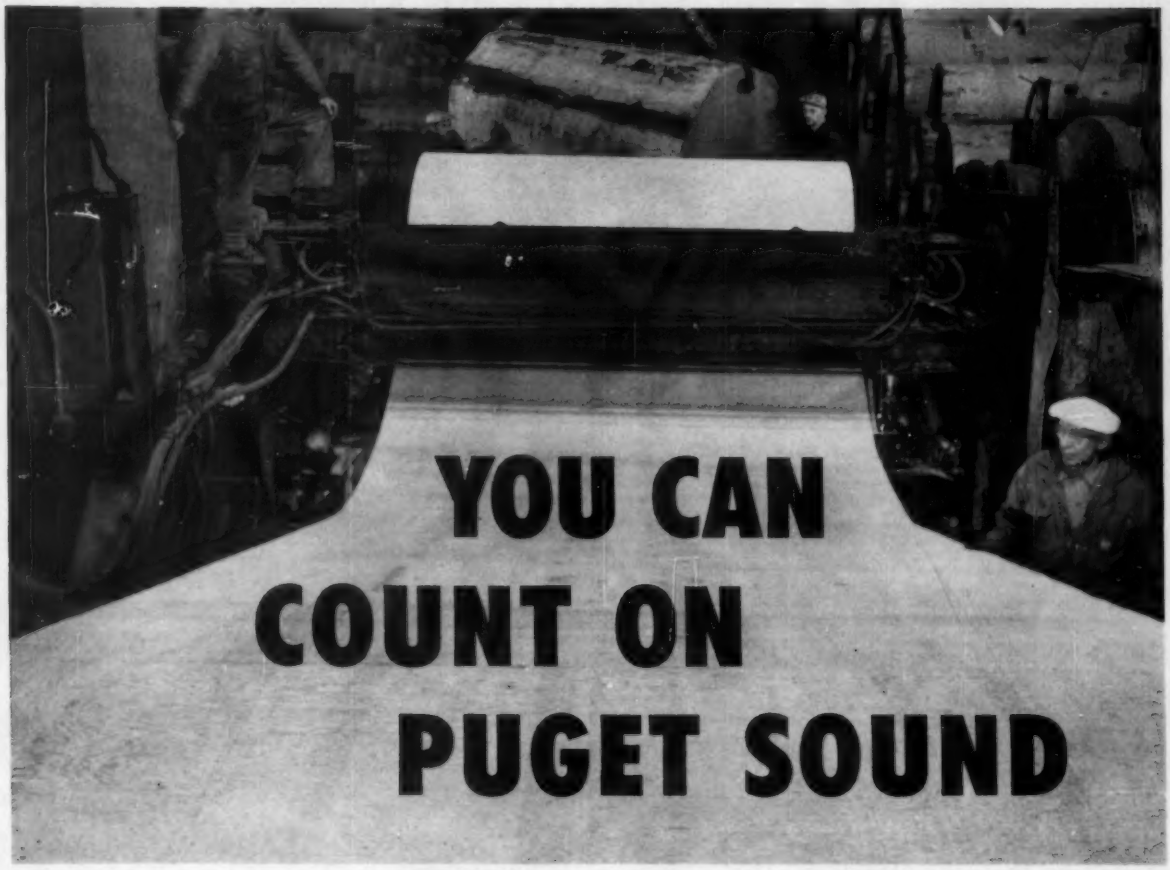

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For over 17 years, Puget Sound has sold through jobbers exclusively. Prices are always competitive; shipments are made on schedule.

2. DEPENDABLE QUALITY

DFPA TESTED QUALITY

Puget Sound plywood is made from select logs by men who care. All fir plywood is DFPA grade-trademarked to certify quality meets or exceeds Commercial Standard CS45-55.

3. COMPLETE LINE OF PRODUCTS

Puget Sound offers a complete line of fir plywood, specialty and hardwood panels.

- **"GRAINGLO"** Douglas Fir Brushed Plywood
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- **PHILIPPINE MAHOGANY PLYWOOD** Ribbon & Rotary Grain
- **TEXTURE ONE-ELEVEN**
- **BIRCH PLYWOOD**
- **EXTERIOR & INTERIOR FIR PLYWOOD** (all grades)—sizes up to 60" x 120"
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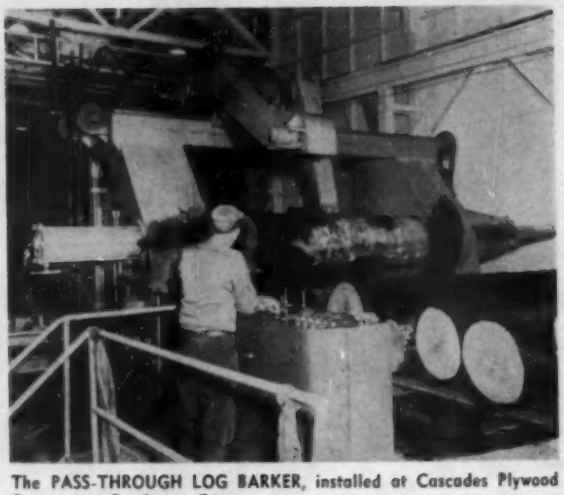
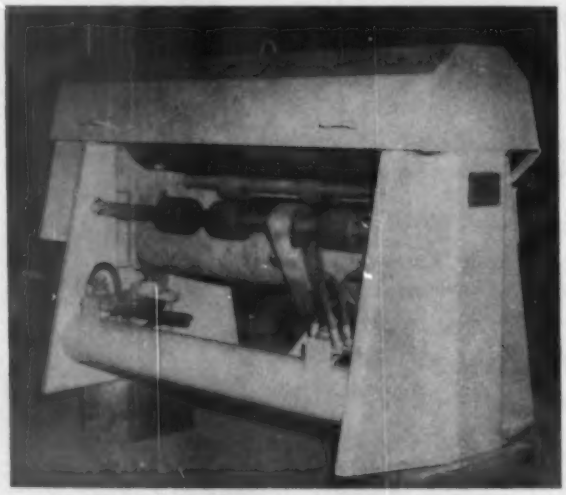
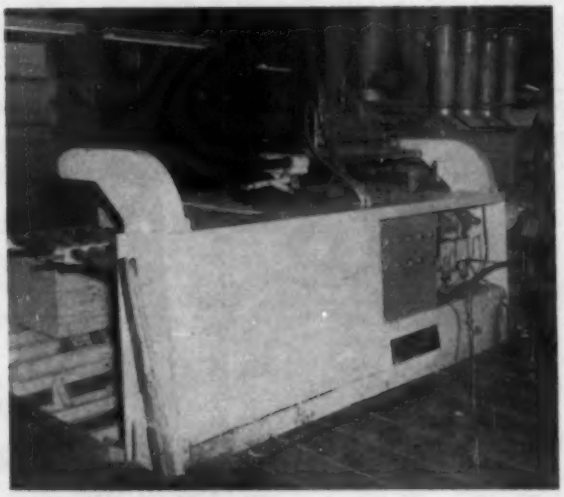


The PASS-THROUGH LOG BARKER, installed at Cascades Plywood Corporation, Reedsport, Ore.

The equipment for plywood and veneer plants — designed and engineered by DRAIN MACHINERY & SUPPLY COMPANY — has been developed from practical experience and know-how. The machines will save you money and man hours. Write today for details and specifications.



Drain's new CORE VENEER ROLL CLIPPER. Installed at Vaughn Lumber Co., Inc., Swisshome, Oregon.



The new Drain PANEL FEEDER . . . now operating for The U. S. Plywood Corporation plant, Eugene, Oregon.

Similar machines operating at Timber Products, Medford, Ore.; Weyerhaeuser Timber Co., Springfield & Cottage Grove, Ore.; Durable Fir Products, Arcata & Calpella, Calif.; Drain Plywood Co., Drain, Ore.; Giustina Bros., Eugene, Ore.

We manufacture a complete line of plywood and sawmill machinery. Also the LOG WRANGLER pond boat, which operates in 22-inches of water. One of our major lines is special fire fighting equipment, "Cat" canopies, conveying machinery. We also stock steel and industrial supplies.

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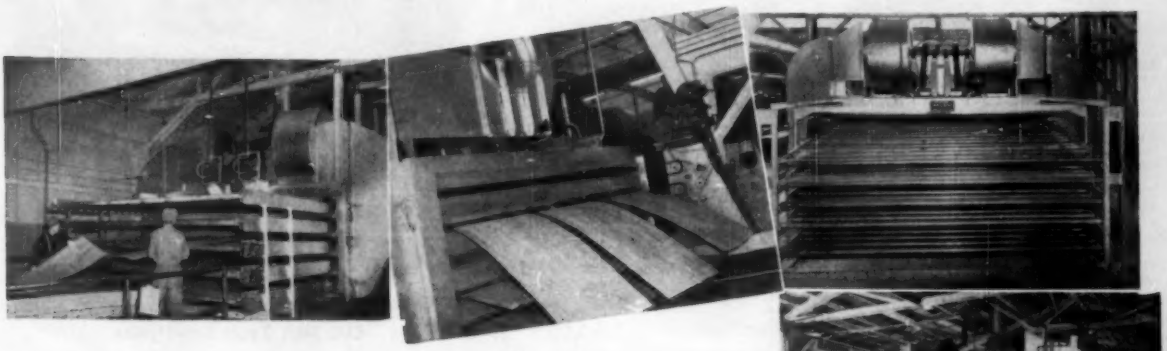

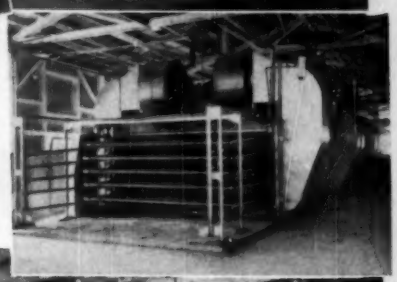

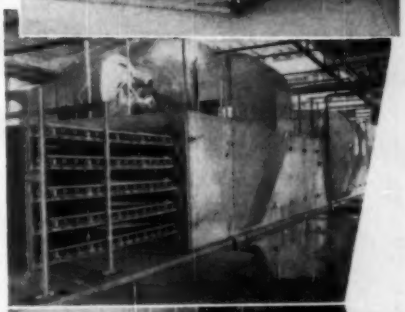

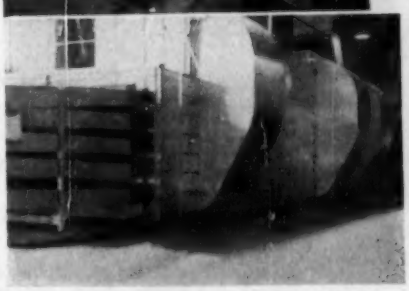

more and more PLYWOOD MANUFACTURERS are looking to MOORE...

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Superiority in the performance of a dryer naturally means profitable quality seasoning of veneer—and more and more leaders in the industry are looking to the **MOORE ROLLER VENEER DRYER**—the dryer with **Quality** built in—for that long-lasting superior performance.

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give more than superior drying—for into each dryer goes well over 75 years of engineering research and experience in the seasoning of all forest products—your assurance that you can depend on **MOORE!**

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- **Division of heating units to assure the right temperature for all species and thickness of stock being dried.**

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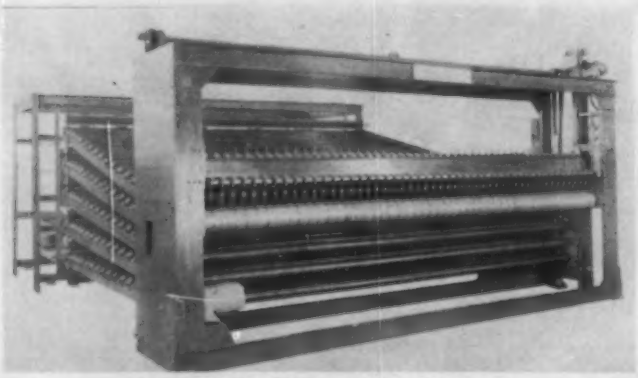
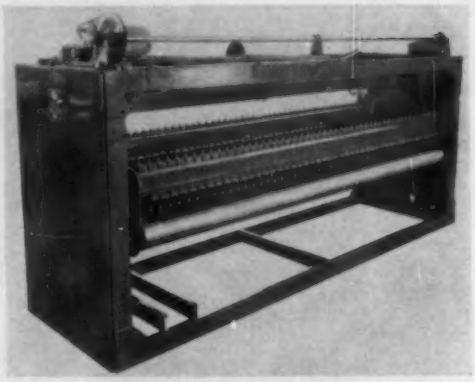
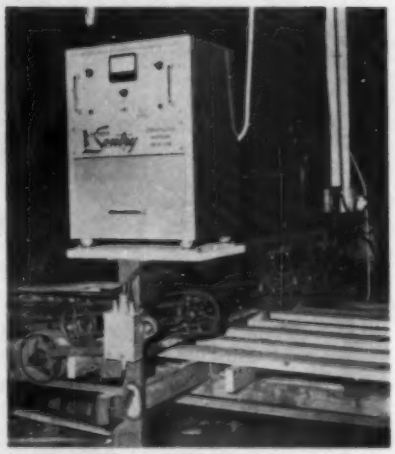


COE Moving Feed Section Dryer Feeder



COE Short Tipple Dryer Feeder

Cut Operation Costs with AUTOMATION IN PLYWOOD



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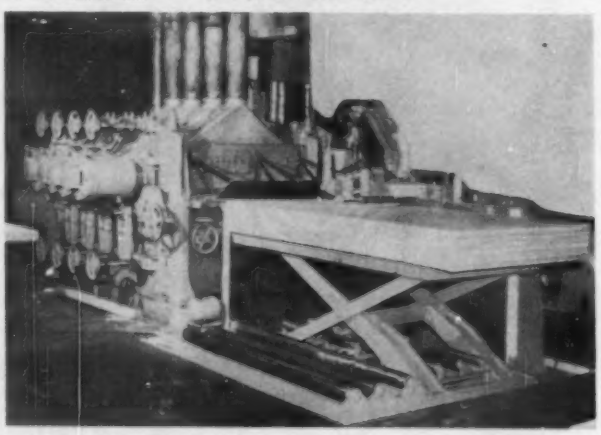
EDERER Lathe Charger

DURAND Panel Feeder



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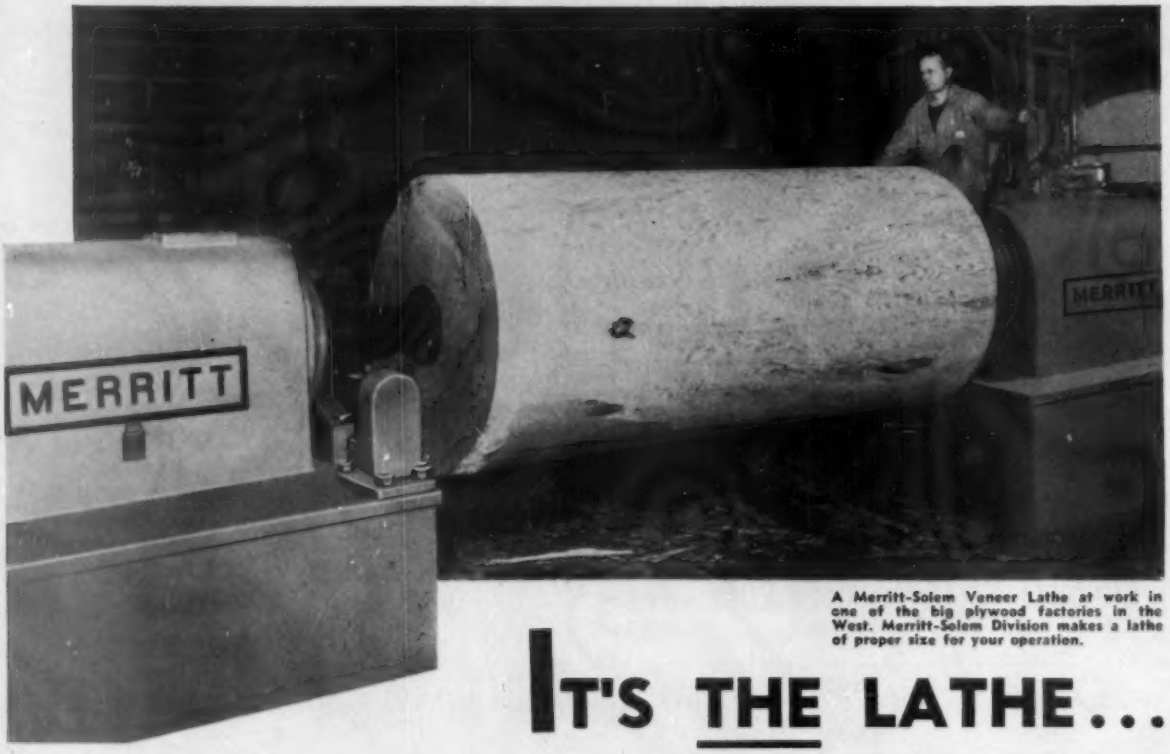
QUALITY PLYWOOD BEGINS
WITH A MERRITT-SOLEM VENEER LATHE



A Merritt-Solem Veneer Lathe at work in one of the big plywood factories in the West. Merritt-Solem Division makes a lathe of proper size for your operation.

IT'S THE LATHE...

SOLEM'S NEW PLANT IN ROCKFORD

Solem's new modern plant in Rockford, Illinois is conceived and planned with the idea of bringing Solem Machine Company and the Merritt-Solem Division together under one roof as soon as possible, to more closely integrate and expedite the entire operation. This large modern plant will make it possible for us to pass still greater benefits along to our customers and provide them with even better service.

Yes, it's the lathe that starts plywood on the way to market, and when the log is placed between the hydraulically controlled chucks of a Merritt-Solem Veneer Lathe, QUALITY PLYWOOD is on the way.

HIGH PRODUCTION:

You get high production with a Merritt-Solem Veneer Lathe. Even pressure of the blade derived from knife carriage screws in tension, running through feed nuts of manganese bronze alloy, assures you this long smooth ribbon of profit.

INFINITE CONTROL:

From the time the log is dogged, cutting is under complete control. There's a choice of 20 different thickness feeds as controlled by the Decimal Feed Gear Box. One obtains the speed he desires — the one best suited for veneer being cut.

DOZENS OF FEATURES:

Merritt-Solem builds the kind of machine men in the veneer and plywood industry like. Merritt knows their problems, their aims — and does something about them.

If you make **PLYWOOD** you also need **MERRITT-SOLEM VENEER CLIPPERS**

MERRITT-SOLEM VENEER JOINTERS

MERRITT-SOLEM HOT-PLATE PRESSES up to 20 openings

If You Make **PLYWOOD** or **PARTICLE BOARD** you also need **SOLEM DOUBLE-DECK DRUM SANDERS**

SOLEM ENDLESS-BED DRUM-SANDERS

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The only Forest Industry Directory that lists logging firms, logging contractors, sawmills, planing mills, plywood and veneer plants, board plants, woodworking plants, wood preserving plants in all the major forest producing areas of the United States—East, South, West and the Lake States, Canada, and the Philippines. The additional statistical and reference data on the industry combine to make this Handbook and Directory a priceless possession for operators and those selling this vast basic resource market.
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- Logging Contractors
- Plywood and Veneer Plant Listings
- Sawmill and Logging Camp Listings (by States)
- Sawmill Top Producers
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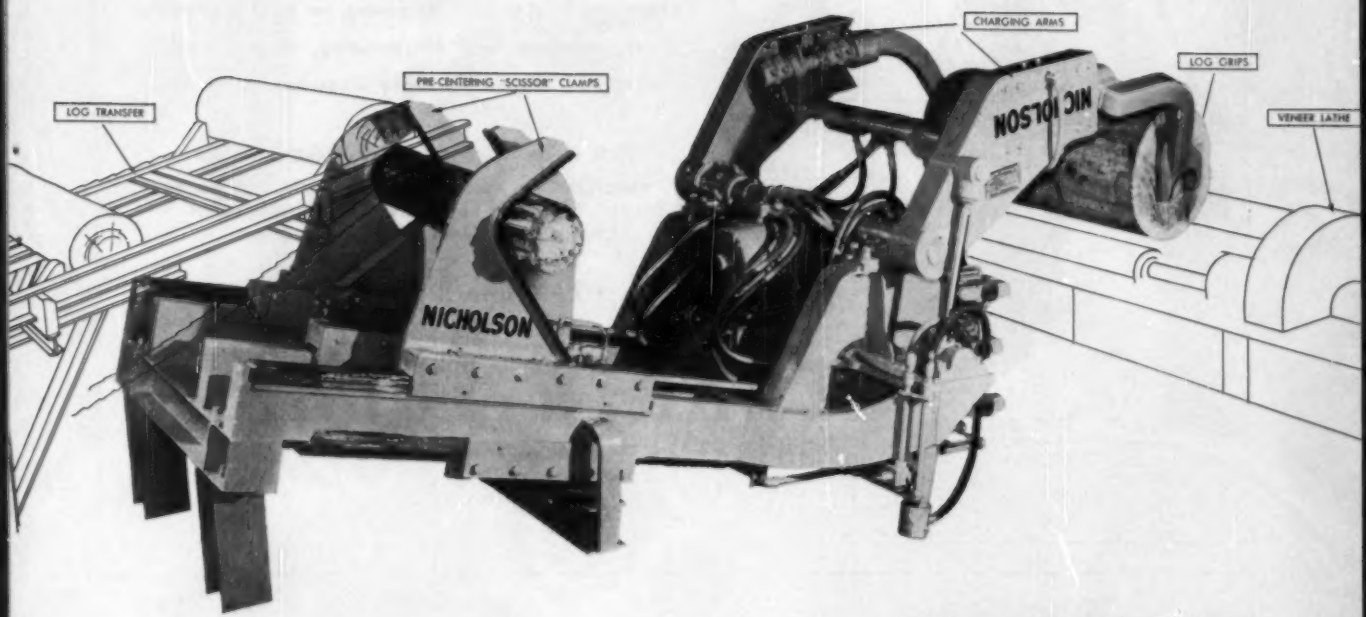
NEW NICHOLSON 401 AUTOMATIC LATHE CHARGER

ASSURES FAST, ACCURATE VENEER BLOCK CHUCKING



Check These Advantages

1. Extremely accurate centering greatly increases recovery — more veneer from same logs.
2. Speeds up production—there is a block ready for the lathe at all times.
3. Reduces labor cost—the lathe operator handles the charging of his own machine.
4. Cuts accident reports—there are no men working in the log handling area and this gives *safe* operation.
5. This machine will increase the amount of veneer peeled from each log by accurate centering in the lathe.
6. This is performed mechanically, which allows *no* human error.
7. Production is increased as there is a "pre-centered" log ready for the lathe at all times.
8. The Nicholson Automatic Lathe Charger is available in several different sizes and can be built to suit your requirements.

NICHOLSON 60-86 LATHE CHARGER now available . . . used for operations requiring centering on the natural heart of the log rather than the geometric center. It has the same advantages as the Nicholson Automatic Charger except that an operator is required for most installations.

Built to efficiently perform following functions automatically:

- Accept block from transfer chain.
- "Pre-center" block in "Scissor" clamps.
- Grip block in charging arms.
- Rotate charging arms, with block, to "ready" position (next to block being peeled in lathe).
- Repeat cycle after charging Lathe.

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Designers and Builders of Production Woodworking Machinery, Log Barkers, Trim Saws, Sash and Door Machines and Log Handling Equipment.

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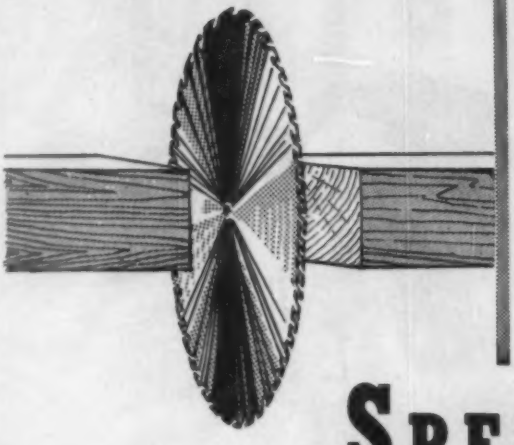

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From raw steel to final sharpening, we build in greater shock resistance and longer-lasting, sharper cutting edges . . . to give you more production at less cost.

Talk to us today about your requirements.

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EXTERIOR GRADES
INTERIOR GRADES

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A great product with a solid heart and fine finish

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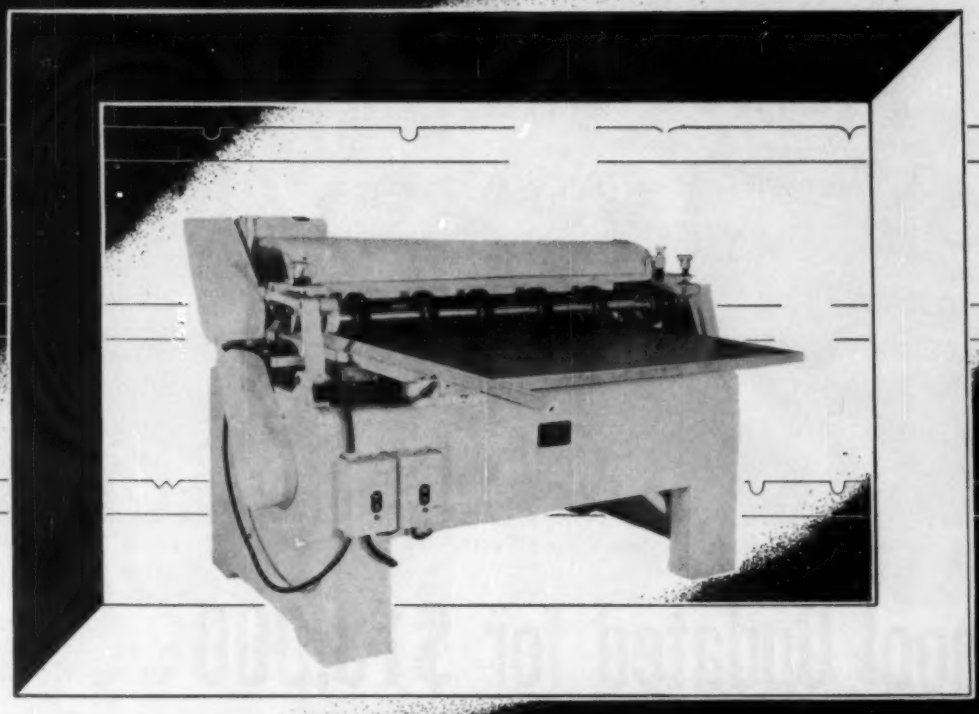

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MULTISCORE TEXTURE 1-11* PANEL GROOVER

"Quality with Economy"

Quality in exterior designs. Primarily designed and equipped with necessary heads to process exterior plywood into a wonderful variety of siding patterns including shiplap and the popular Texture 1-11 pattern promoted by the Douglas Fir Plywood Association.

Quality in interior designs. Converts easily and quickly into V-Grooving machine to process interior wall panels into variety of pleasing grooved patterns.

Quality in carbide-tipped bits, easily changed or removed.

Quality in rigid structural design.

Quality in powerful motors designed to carry the load; production tested for more than a year.

Quality with economy—a fraction of what you would expect to pay.

Quality unconditionally guaranteed.

* DFPA reg.

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Remodeled classrooms now contain easily moved structures built of plywood

School Updated for $13,000 using fir plywood

for mobile clothes racks, desks and to enclose radiators, sinks

A 30-YEAR OLD SCHOOL in San Angelo, Tex., has been updated to meet growing school population and to incorporate today's teaching methods. This was accomplished without tearing down a single wall. The 18 box-like rooms were completely changed in character by the use of plywood built-ins and other innovations, and the addition of a cafeteria.

San Angelo's superintendent of schools, G. B. Wadzeck, said the basis of the project was using available space to better advantage.

FLEXIBILITY was the object of the updating of the school. Getting away from the traditional concept of one desk per child, all desks in fixed rows, with the teacher's desk at front and center, was accomplished. With movable tables and chairs, the teacher can move children from area to area according to her judgment of where they will work best according to daily activities. There is also allowance for a system in which advance, average and slow learners may be taught in separate sections.

Classrooms were typically 22'x28' with a door into the corridor, windows along the opposite wall and two radiators under the windows. A long cloak room extended along the back wall and the corner between the corridor and the cloak room served as teacher's storage space.

Floors of the classrooms were torn up and old boards discarded in favor of asphalt tile. Cloak rooms were torn out. Teacher's storage room was left in place and at the other end of the cloak room space a small rest room was built into the corner. The space between these two corner built-ins was left open. A built-in sink cabinet was set in the corner formed by the rest room and window wall.

Other improvements included the following:

Radiators were left in their old location but were enclosed in a long row of built-ins along the window wall. Fir plywood was used to make a row of cabinets 40½" and 15" deep.

Space between radiators is now being used to good advantage, with open shelves and closed cabinets flush with radiator enclosures. At one end of the radiator wall a 10-drawer cabinet, each drawer 20"x18"x3" was built in, these for the teachers, used as "monthly" drawers, with current month's material on top. The drawers can be rotated.

Solution to coat storage was solved by addition of two or three portable racks.

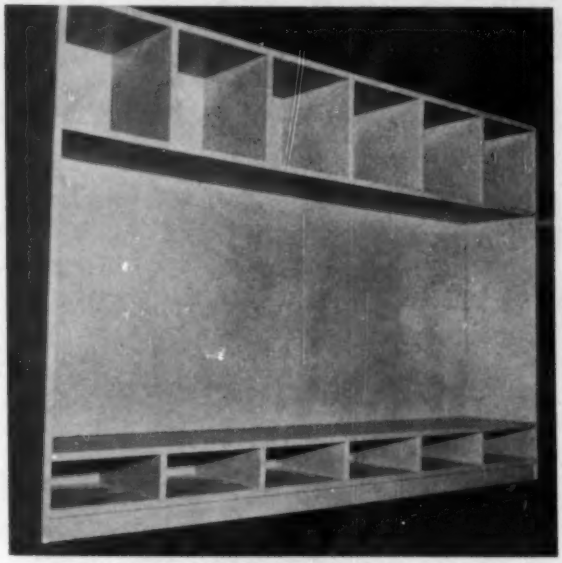
These two steps were the extent of physical remodeling. The remainder was accomplished by removing stationary desks and substituting a variety of pieces of movable furniture and teaching aids constructed of fir plywood in the school shops.

One of the study tables, not shown in photos, had seating capacity for eight students. It had a round top with plywood seat fastened to each of the eight metal legs. Another table has a revolving Lazy Susan in the center. The top is 10-sided to accommodate ten students comfortably. Lazy Susan is removable when more space is needed for work. Sectional work tables, any part of which can serve as a table for one or two children, are two basic shapes: a 2x4' rectangular table and a table of similar dimensions with the two corners on the long side rounded. Twelve possible combinations can be made of these tables.

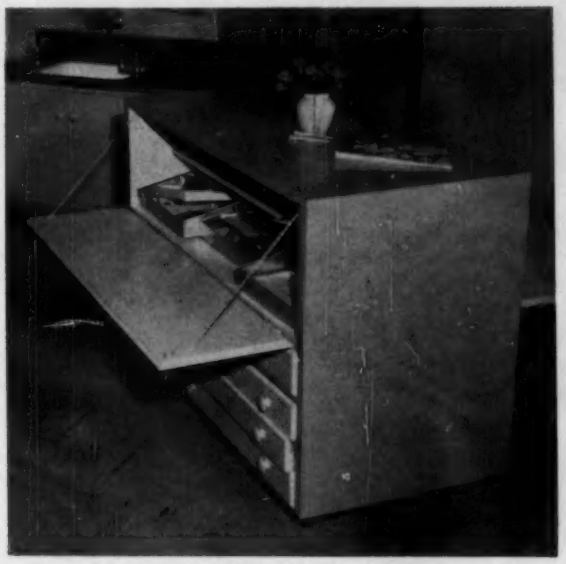
All stationary built-ins were painted. Study desks were stained and varnished.

THE CAFETERIA is built on two levels, with the center section sunk below the two sides and with steps up to raised section. Center section can serve as stage when the room doubles as an auditorium. Long fir plywood built-in against one wall of the cafeteria provides storage for chairs and tables: folding chairs may be stacked in the cabinets that form part of the built-in. Tables folded up into the wall spaces. The entire room can be cleared neatly and quickly.

Mobile structures to allow better use of space primary goals of modernized school



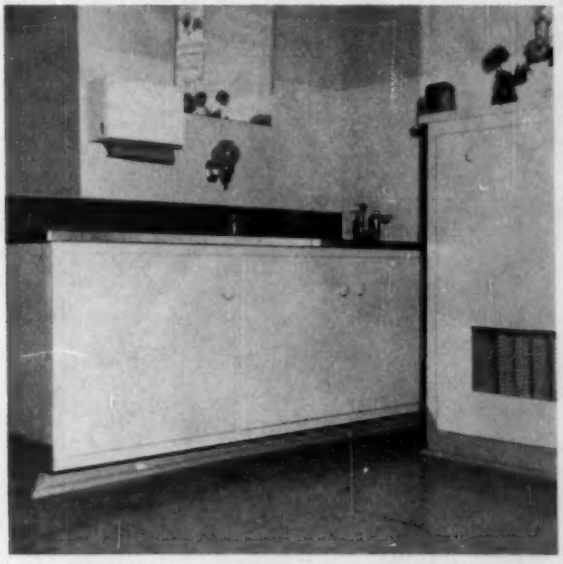
PORTABLE STORAGE RACKS replace coat rooms. They are simply open plywood cabinets with three storage features: a row of small open shelves along the top; below these, on the under surface are hooks for hanging coats and a space for them to hang free; and small tote drawer spaces along the bottom. The cabinets are on rollers and are easily moved from place to place so they can serve as room dividers, or be moved out of the way.



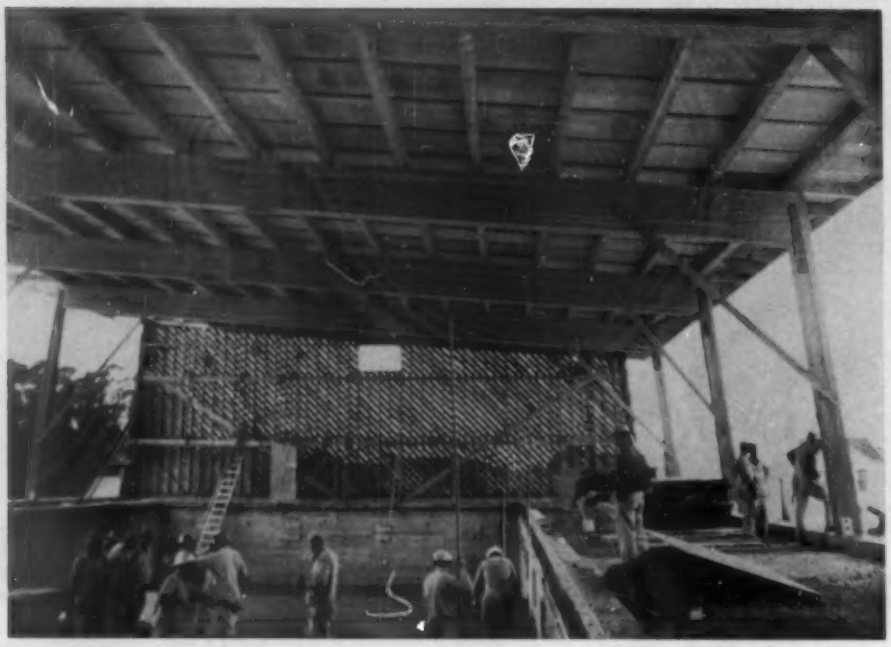
PORTABLE STUDY DESK was built entirely of plywood at cost of $85 in school shop. Swing-down doors on each side provided working surfaces for children. Storage space is provided within, with drawers below the shelf on each side in which students can store materials they are working with. The desks are mounted on rollers so they can be moved where needed. The deck is 44 inches long, 2 feet deep and 32 inches high.

Enclosed radiators improve heating, increase space. Sink cabinets give more storage room.

PLYWOOD-ENCLOSED RADIATORS have a grill near the floor and another in the top surface, creating a circulating heating system with cold air sucked in at the bottom, warmed, and released at the top. Open shelves and storage cabinets are included at either end of the radiator unit. Result is more usable space.



SINK CABINET utilizing fir plywood is located in corner between a radiator enclosure and the new restroom. It is one of several stationary units built which are of fir plywood. The sink cabinet was painted in a gay primary color, combined with pastel, as were the movable units. Sturdy desks were stained and varnished. [END]



Roof Job Labor Cost Cut using 1⅛-inch thick

2.4.1 fir panels and metal clips instead of blocking, in low roof areas

METAL CLIPS INSTEAD OF BLOCKING were used in the low roof over the locker room. The clips, designed by T. G. Engstrum, were used on 16-inch centers between purlins, joining panel edges. The clips were approved in place of blocking where shear was not a problem.

THREE CENTS A SQUARE FOOT was the total labor cost of installing and nailing 14,848 square feet of fir plywood roof sheathing on a recent San Francisco swimming pool project.

Engstrum & Nourse, contractors on the job, say use of 1⅛-inch thick 2.4.1 provided sufficient rigidity for spanning 4-foot centers and resulted in considerable saving. Metal clips instead of blocking in low roof areas also contributed to the saving.

2.4.1 PANELS, designed primarily for subflooring underlayment, are available with exterior type glue for structures of this type.

On the pool job, the C face was exposed, D face turned down. Edges were blocked with 2x4's for a solid unified diaphragm. Purlins, 6x12 and 8x12, were spaced on 4-foot centers and panels were staggered and laid at right angles to the purlins.

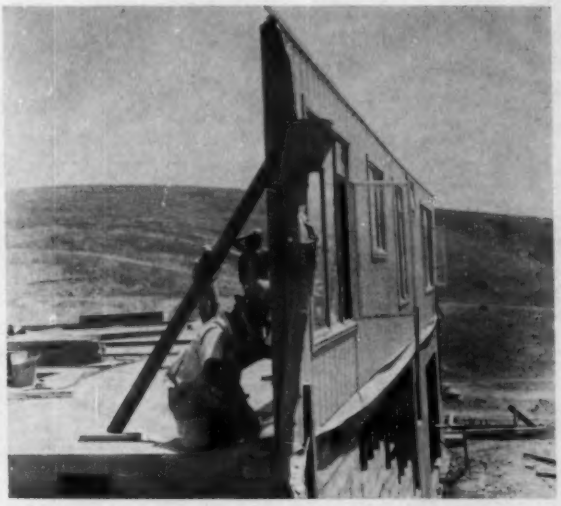
GLU-LAM BEAMS, 60 feet long and measuring 12½x30 inches, were spaced on 24-foot centers and rest on 12x14-inch wood columns framed into the walls. Columns and 2- to 8-foot deep footings were cambered 1 in 12, and the roof was pitched the same.

Eight-penny nails secured panel edges to blocking on 6-inch centers, to take the shear on the high pool roof. Elsewhere, 10d nails were used on 6- and 12-inch centers intermediately on panel perimeters.

Installation of the 464 panels of the complete project took 16 man-hours.

INTERIOR SHEAR WALLS of the structure were sheathed with half-inch Ply Scord. Outer walls were wood-framed with a plywood filler panel plastered and covered with terrazo. Tempered glass with heavy wood mullions was used for the large pool window wall. [END]

Tilt-Up Saves Time, Money as scaffolding is eliminated and manpower for constructing wall panels is sharply reduced.



TILT-UP CONSTRUCTION on a housing project in Castro Valley near Oakland, Calif., has resulted in some worth-considering savings in time and money for Smith & Kline Construction Co. in building multi-leveled structures. They include:

- No need for scaffolding which required up to 3½ hours for erection and cost $62 per house, even considering re-use of material.
- A 2-man carpenter crew can fabricate and set up two 40-foot walls in less than a day.
- Cost of erecting a complete outside wall is no higher than the former cost of trim and decor.
- Reducing costs from $520 to $132 in a complicated gable end of a home with a Dutch-type, barnlike front elevation.

TOTAL SAVINGS realized by prefabrication and tilt-up averages $525 per house, including about $122 in bracing and blocking, according to Builder Gene Smith.

Tilt-up walls used by Smith & Kline are of ⅜-inch medium density overlaid fir plywood. This surface has eliminated the need of a prime coat and further paint savings result because the overlay does not soak up as much as most surfaces.

The plywood is 4x9 panels with inch-wide bands of vertical striations on 8-inch centers. The plywood is laid over an 8-foot framework, and laps down over floor joists past the top plate of the first floor.

Panels are butted together, with a bead of putty at seams, over a vapor barrier, and spot nailed. Walls, which may run from 40 to 50 feet in length, are nailed in the most convenient working position at 6-inch intervals with 7-penny galvanized nails.

Wall jacks and a crane were available for hoisting finished walls into place but they weren't needed because of the lightness of construction. Except on windy days, when jacks are used as a precaution, nearby manpower is adequate to raise even the longest wall.

STRUCTURAL STRENGTH of fir plywood eliminates need of bracing or blocking. According to Smith, a stronger wall than one with bracing results because:

- Due to location of windows and doors, it is not always possible to run bracing where it should be . . . running at 45 degrees from the top plate at an outside corner to the sill.
- It is difficult for carpenters working on a production basis to satisfactorily seat a let-in brace of one-by material.
- Shrinkage of lumber tends to lessen the bracing's effectiveness.

Smith & Kline uses ⅜-inch fir plywood on the lower level walls as foundations for stucco, and on interior shear walls. Plywood for each house—from 1800 to 2400 square feet—is delivered to each site as a package and dropped by a crane on the subfloor, right where it will be used.

UNIFORM PANELS available in plywood have converted the builders to a switch from lumber to plywood subflooring in future units.

Time for closing in a house has been reduced between 10 days and two weeks. The previous average time to finish out a house ran as high as 90 calendar days. Now it is down to an average of 52 days. The builders feel they could do a good job of turning out a complete house in a month, if necessary.

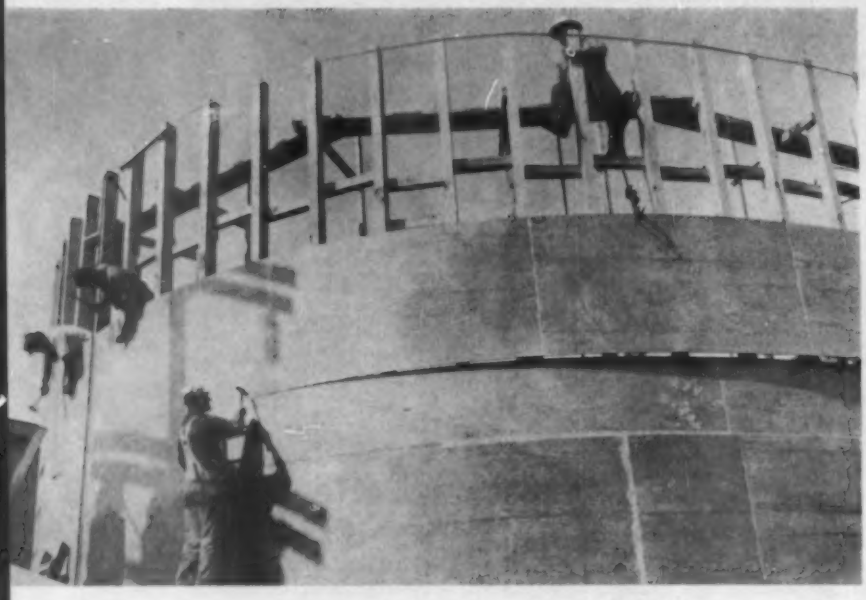
Smith & Kline knows exactly how labor and material costs are running because the company maintains a daily inventory of work and material in place, in which each operation performed during the day can be checked off in 30 minutes at day's end.

Efficiency is a paramount factor in the firm's operation. For example, as walls are framed on the subfloor, carpenters use a template and go right down the line. A final check with diagonal measurements assures that a wall is true; then the framing is ready to be paneled.

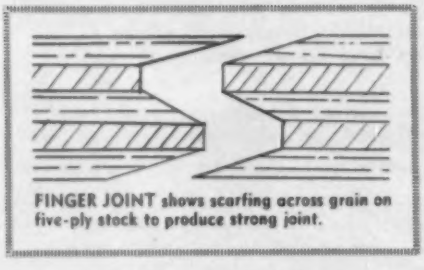
Smith & Kline use the tilt-up, prefabbed construction on apartment houses and commercial buildings as well. [END]

Oversize Panels for Structural Units

save time, labor, raw material and broaden markets



GRAIN BIN is of scarfed panel construction. Panels are 42½x4 feet in size, formed around and nailed to studs. C-clamps utilized to raise long panels and hold them while nailing to studs. Five-man crew erected entire structure in one week's time.



FINGER JOINT shows scarfing across grain on five-ply stock to produce strong joint.

Plywood marketing based on 100% stereotyped 4x8-foot panel is changing. Plywood customers are now quick to voice their special needs and to require especially-designed panels to fit their jobs.

VENEER EDGE-GLUING for tailoring both face and cross-banding and oversized presses are both helping meet the increasing demand for specially-sized panels. Production and marketing benefits revert to both the producer and the consumer.

The producer is able to obtain maximum value from his raw material through eliminating what trims might be necessary in cutting to size for the special orders. The customer gets the price benefit by not paying premium for this lost material, and in labor-saving installation costs. The maximum benefit is accrued where the panels can be installed directly without cutting to size. The unit construction also results in strength greater than that from individual panels.

In addition to special pressings, the two methods of producing oversize panels are scarfing (a common process) and finger-jointing (employed by a limited number of producers).

Scarfing employs a flatly-sloped joint which gives a stronger bond but sacrifices a certain amount of material in the scarfed joint. The finger joint sacrifices no material. Panels are sawed oversize to take care of the 21/32-inch required for the finger joint.

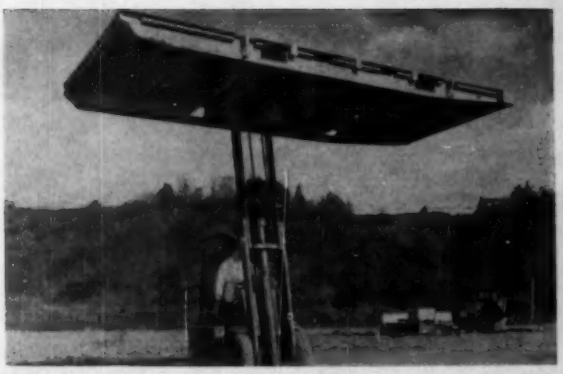
ADVANTAGES OF BOTH are gained in the new finger-joint design of Diamond Lumber Co., Tillamook, Ore., which employs miniature scarfed joints across the grain on laminations. Extra wide panels are also produced in the same manner in addition to long panels.

Basic production of the finger joint is described in the January, 1958, THE LUMBERMAN ANNUAL PLYWOOD REVIEW. Jointing is done on a Jenkins double-end tenoner with Jones and Orth carbaloy insert cutterheads. Because of the miniature scarfed joint, a different cutterhead is required for every width and construction of panel to gain maximum strength from each lamination.

A urea-resin glue with high gap-filling qualities is used for jointing interior panels with a melamine used for exterior. An air-pressured fitting spreads the glue with setting accomplished in a company-built radio-frequency press.

STUDDING of grain bin shown from interior during construction. 4x6-inch vertical studs used with long panels nailed direct to studding.

SEA-VANS are important long panel use. Units vary in size from 8x8 feet to 8x10 feet. Units can be shipped on any combination of truck, rail or water transportation. Can be handled by forklift.



LONG PALLETS of one-piece plywood-decked construction provide a developing long-panel market. Trend toward shipping standardization is pushing this market for special order work.

One of the first big uses of long panels was that given by the mushrooming 10-foot-wide house trailer market. Diamond produces panels up to 8x35-feet for floor underlayment for this market. Railroad cars and truck-trailers are another ready-made market.

A SPECIALIZED use of the long panels is in the grain storage facility built by Diamond Lumber Company in Portland, Ore. The unit is round, 40 feet in diameter and 36 feet high. A four-inch concrete slab was poured for the floor.

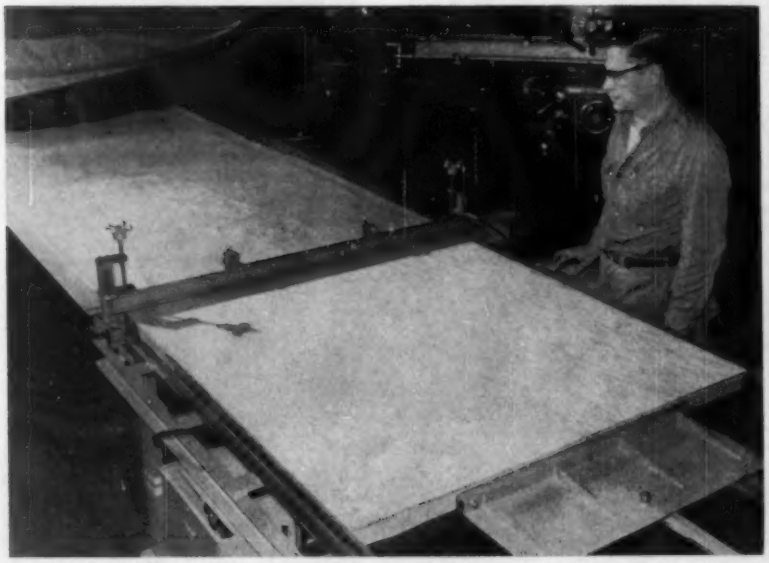
The unit will store 25,000 bushels of grain. Diamond president Roy Gould estimates the cost of grain storage at 20c per bushel.

Pallets provide another lucrative market with a strong product fabricated with a minimum of labor. The Sea-Van development in packaged transportation has provided another market. The Sea-Van was developed for shipping units where several forms of transportation are involved. The package is moved as a unit, minimizing handling costs. [END]

Plywood by the bag . . .

a new packaging concept for plywood panels

A NEW BAG LOADER for packaging large or odd-shaped sheets of plywood, has been developed by the Paper Specialty plant of the Bemis Bros. Bag Co. The paper bag and new loader have opened a new field in the packaging of sheet materials. This is said to offer a substantial reduction in packaging costs. Additionally the adoption of the bags requires less storage and shipping space and reduction in the tare weight per package.



PACKAGE LOADER equipment is automatically controlled. The arm pushes the plywood panels into the paper bag in seconds, and shoves package onto waiting conveyor.

The loader consists of a horizontal sheet-metal bed mounted on a steel frame, approximately table height. The mouth of the loader has metal fins mounted on a frame at the end of the loader, which secure the bag while being loaded. A ram pushes the material into the bag automatically and returns to starting position. As the ram makes its last few inches of travel, the air valves holding the bags are released and the loaded bag is pushed off the machine onto a conveyor table where it is closed and sealed by glue or tape.

Speed of loading is determined by the size of the sheets to be packaged and the method of feeding, either mechanical or manual. The loader is adaptable to any production or loading system.

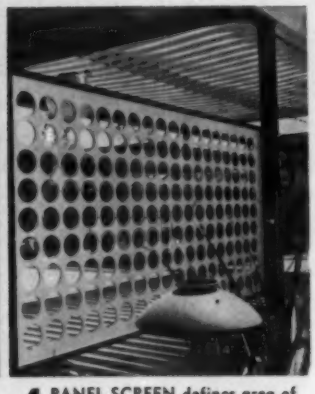
For normal shipping and handling conditions, a sewn tape-bottom bag constructed of a single ply 70-lb. natural kraft paper is used. A reinforcing strip is placed inside each gusset to provide additional strength. If special protection is needed, a corrugated strip, the width of the sheets being packaged, is placed along the edge. A moisture-proof package may also be used. Bags and loader may be custom-tailored to requirements. [END]

Panel Ideas for Every Garden

1 DESIGNS cut in panels and reset at right angles give depth and interesting shadows.

2 TEXTURE 1-11, with standard 2" or 4" grooves has rustic faces appropriate for flat stain.

3 ENDLESS PATTERNS by kerfing and inserting of splines make effective garden walls.



4 PANEL SCREEN defines area of patio but visually does not block it off from garden.

SLITTING, SLOTTING, STRESSING, weaving, piercing or pummeling fir plywood panels can produce an endless variety of texture and form for gardens. That's being proved in the demonstration garden project of the Los Angeles Arboretum, Pasadena, California.

From May to November of 1958, 180-thousand people browsed through the area—and no matter what any one person's attitude was toward gardening, there was a garden for him.

Each garden contains various fence ideas utilizing plywood panels. Most ideas take advantage of the material's flexibility. Some ideas exploit the already-textured surface of Texture One-Eleven with its evenly spaced grooves. Others, purposefully rustic, accommodate the two "C" faces of Exterior-type sheathing. Most take advantage of the smooth paint surfaces of Exterior-type A-A.

The panels are used for every kind of fence from a portable wind baffle, to a screen for hiding a view and a solid enclosure for privacy.

A woven patio cover is appealing and functional in itself and also casts interesting light patterns. A "Jungle Jim" has an interesting shape with substance and makes the children's garden a play area. A plywood garden tool storage and work area is fine habitat for the serious gardener.

All of these ideas, some shown on these pages, can offer visual interest and distinction at little extra cost.

The demonstration project is a continuing one, developed by the Arboretum Foundation, SUNSET MAGAZINE, and landscape architects Bettler Baldwin and Owen Peters.

"JUNGLE JIM" structure is, in a sense, a garden in itself for the younger set.

CLUSTERS OF HOLES in this garden wall plywood panel permits patterns of changing light to flow through with ample shade.

PATIO SHELTER of woven plywood is bordered at right by plywood-and-glass tool storage room and work area. [END]

Rigid frame building of clear span buildings borrows on the old architectural principal—the three-hinge arch—and is streamlined to present day techniques. Engineers of the Plywood Manufacturers Association of British Columbia picked dimensional lumber for the arches, fir plywood gussets for the hinges. Walls and roof sheathing is also fir plywood to provide high dimensional stability.

Building for $1 a Square Foot

with rigid frame system using fir plywood for walls and roof sheathing

Three years ago engineers of the Plywood Manufacturers Association of British Columbia decided a clear-span building built at a cost of $1 a square foot would find a waiting market in the rural areas.

After tests, they also decided a rigid frame system using dimensional lumber for straight lengths, plywood gussets, and roof sheathing and walls of fir plywood to add dimensional stability, was a workable plan.

They were right on both counts.

The test structure was an 84-foot long structure with a span of 32 feet erected at the University of British Columbia. The cost . . . $1 a square foot.

One reason for the economy is that only three men are required to erect such a structure and they need not be skilled. In erection, arches are tilted upright on 2-foot centers on conventional concrete foundations, and walls and roof sheathing applied.

Spans are currently limited to 38 feet, but the length is limited only by the extent of the builder's wishes. At least two such units have been constructed which measure more than 400 feet in length.

When the first units caught on so quickly with the rural areas, the association immediately prepared a 24-page booklet detailing construction of rigid frame buildings with spans up to 32 feet. In 1958, the booklet was revised, and building details were included for 38-foot spans. The booklet has also been translated into French for the large rural market in the province of Quebec.

Plans for 1959 are big. A much larger unit will be erected at the next Salon of Agriculture, a movie has been prepared showing construction of an actual building, and field representatives in major Canadian Building areas will continue to answer a growing demand for literature on the economical structure. [END]

FRAME STRUCTURES continue to be the biggest market in Canada for rigid frame buildings. At the 1958 Salon of Agriculture show in Montreal, an entire fir plywood farmyard was erected, centering around a 21x24-foot rigid frame cattle shelter, complete with livestock.

CHURCHES quickly took to the rigid frame, perhaps because they are somewhat reminiscent of the old buttresses. This church in Ontario has a full foundation and cut stone face. Growing utility uses include storage for equipment for building firms and cities.

Folded plate roof is essentially a series of oversize corrugations in form of peaks and valleys, as indicated in the folded sheet of paper above. In construction of the home pictured here, the flat planes of the peaks and valleys are supported on posts and beams, eliminating conventional trusses and rafters of conventional roof construction.

Quick Roof Erection possible with fir plywood

box beams and folded plates assembled off-site, put in place with a crane

SPEED OF ERECTION of a folded plate roof on a model home in Oswego, Ore., prompted the architect on the project to comment that on successive days the home looked like two different jobs.

The house was built by Dwight Haugen of Portland who wanted something that would be different, and would take advantage of component construction. He selected Portland architects Donald Blair and William F. Fletcher to secure his goal.

The architects were high in praise of box beams and folded plate roof components, particularly because of the speed of the work. Engineering help supplied by the Douglas fir Plywood Association was invaluable and prefabrication of units by Diamond Lumber Co., Portland, was perfect, according to Blair.

PLATES ARE POSITIONED with a crane over a temporary form which is removed when panels are fastened. They are nailed together with 16d casing nails. Four carpenters and a crane operator erected posts, beams and roof panels in 25 man-hours. A comparable conventional system would require about 12 man-hours.

MODULAR BASIS of the house is keyed to 15x22-foot space units. This permitted a high degree of flexibility in variations of the basis floor plan. Posts are spaced 15-feet on center one way and 7 feet, 3 inches on center the other. These support the shop fabricated box beams of varying lengths, the longest of which is 46 feet, spanning a maximum of 22 feet. Webs are ½-inch medium density overlaid fir plywood about 16 inches deep with 4x4 top and bottom flanges and 2x4 spaces as required.

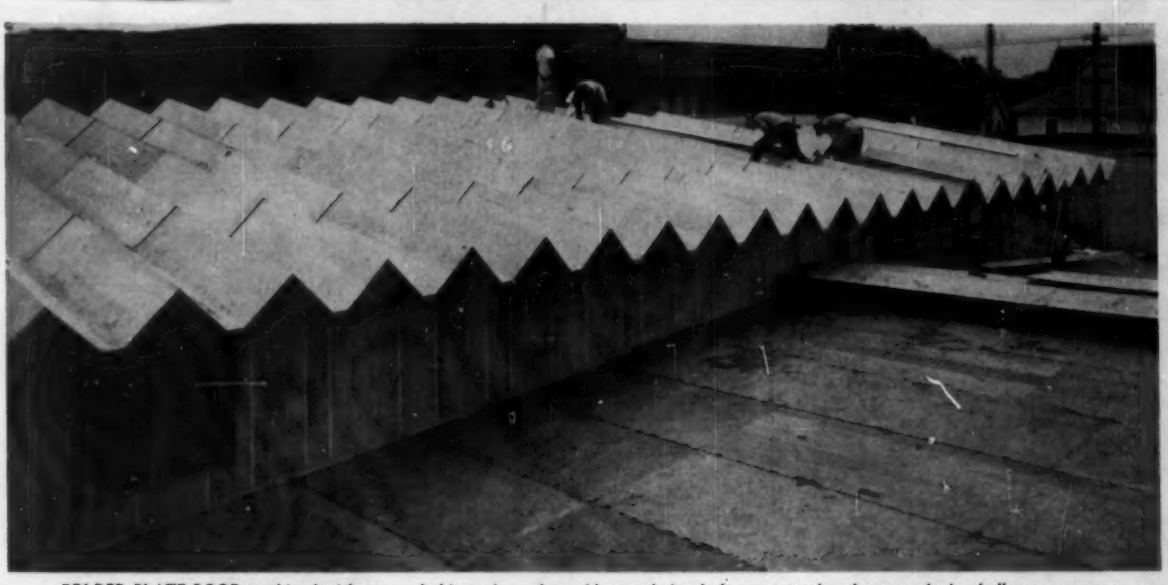
Plates are stressed skin panels four feet wide and varying in lengths to 31 feet. The top skin is ⅜-inch exterior type C-C fir plywood to provide a good base for paint. The bottom skin forms the ceiling surface.

LONG PLYWOOD panels are glued to both sides of the flat 2x6 perimeter framing with 2x2 spacers on 2-inch centers. Insulation was installed in the panels during fabrication. Final exterior finish was fiberglas and asphalt.

Because the box beams and folded plate panels were prototypes, cost of shop fabrication was high—about $2000 for beams and panels. Haugen believes, however, that this system of construction will save a substantial amount of money as fabricators learn more about component construction.

Walls were formed of 2x4 studs and fir plywood sheathing with a walnut veneer assembled as panels. They were quickly tilted into place between the posts. The plywood provides a solid backing for aluminum sheet siding which is finished with a baked enamel finish. The siding was applied on the job site with screws and contact cement.

ANOTHER COMPONENT unit which worked well and used plywood was the floor which consisted of 4x8-foot panels comprising 2-inch edge-glued cores covered with ⅛-inch veneer. [END]



FOLDED PLATE ROOF combined with stressed-skin main roof provides good visual planes to total roof area, reducing bulky appearance.

Folded Plate Component Roof provides

balance to visual planes of the total roof area reducing bulkiness

ARCHITECT LYLE SWEDBERG had to pack a lot of supermarket into a tight space into a Seattle Big Bear Market without overwhelming the residential surroundings.

A mezzanine at the rear added valuable space and is sheltered by a continuous plywood folded plate.

The folded plate's undulations (eleven joined "Ws") give it lightness and movement, so it does not overpower the main roof in front, which is slightly pitched in two directions and is harmonious with the area.

In counterpoint to the ridgeline of the main roof, which has a long, gradual slope to the rear, the folded plate slopes at a sharper angle. Thus the visual planes of the total roof area balance each other and converge in the main roof itself, giving a self-contained appearance without bulkiness.

With Panelbild Systems, Inc., providing all components for the folded plate at an in-place charge of 65c per square foot, excluding finish roofing.

Swedberg and contractor Roger Sorenson had a 75′ front and 120′ depth on which to design and build the $85,000 store. The building is steel post and beam with masonry walls. The 14″-flange beams are spaced on 24′ centers.

THE MAIN ROOF is stressed-skin sandwich panels 24′ long span 24′, with the bottom skin as ceiling (all ceiling surfaces in the store were painted) and the top skin as roof decking. At the front of the building the panels are 30′ long, giving a 6′ cantilevered overhang with no problems for the contractor.

The panels were supplied by Panelbild at an in-place cost of 89c per square foot. Top skin, ⅜″ PlyScord C-D with Exterior-type glue; bottom skin, ⅜″ Exterior A-C; flange, 2x8s. Swedberg notes that the panels eliminated purlins that would have been much bigger than the flanges and provided a desirable thin roofline.

The ridge is 16′10″ at the storefront, descending three feet in the 88′ to the mezzanine's front wall. Housing the built-up lumber ridge member is a ridge-ventilator of plywood sheathing, accenting the roof's slope.

FOLDED PLATE ROOF panels of the mezzanine roof are ½″ Exterior A-C, two feet wide. Shop fabrication of the panels into components included these steps:

(1) Two panels were butted end-to-end and nailed to a ½″ plywood splice plate on the upper surface.

(2) Two of these 16′ lengths were joined in a 90-degree "V" by nailing them along a triangular chord (a 4x4 cut in half).

(3) Two of these "Vs" were nailed along a similar connecting chord, giving a "W" component 16′ long and 34″ from valley to valley.

(4) Another chord was nailed to the "W" so that after the component was lag-screwed on the supporting wall plates, the adjacent component could be nailed to it.

Two tiers of eleven 16′-long "Ws" make up the 32′x70′ folded plate. Six of the 32 feet are overhang. Half way between the front and rear mezzanine walls, which are 26 feet apart, is a conventional stud load-bearing wall that supports, with bearing stiffeners, the spliced joints between tiers.

No frame of any kind was needed to install and join the components. Each component was lag-screwed through its bottom chord to the plate, and then nailed to its neghbor. (With stronger chords, the full 26 feet could have been spanned easily, but as partitions in the mezzanine were wanted it was decided to make the interior wall load-bearing.

The half-inch splice plates caused no problems with the finish roofing operation, as half-inch flat insulation was laid beneath built-up felt and asphalt, which was also the finish for the main roof.

The folded plate slopes forward 4′ in 32′, affording good drainage as well as the other values mentioned.

MEZZANINE FLOOR PANELS are similar to those of the main roof, with these differences: the top or floor skin is ⅝″ A-C, certified for a load of 107 pounds per square foot and serving as a base for direct application of tile; the panels carry no insulation and are 13′4″ long. Bottom skins form the ceiling of the store section beneath. [END]

Specialty Plywood Products

in demand by architects and builders

TEXTURE ONE-ELEVEN. Exterior-type, 5/8" thick, with parallel grooves 3/8" wide and 1/4" deep, standard 2-" and 4" groove spacing. Conceived as rustic siding now widely used for soffits, store fronts, counter facing and spandrels, gable ends, fences, interior walls and partitions. Besides C face for rustic, now produced with A faces or medium density overlays. Requires no sheathing. 1958 production estimated at about 31 million square feet.

BRUSHED (relief grain). Stresses natural fir grain patterns. Some or all soft spring growth in face is brushed out, leaving harder summer growth in relief. Many types, brands and processes. Some leave polished sheen, others give rougher texture and less defined ridges. Uses include display islands, store fixtures, window backgrounds, exhibits, screens, paneling for homes and commercial, ceilings, built-ins, gable ends, fences.

RESIN-FIBER OVERLAYS (medium density) has less resin and is opaque. Smooth surface ideal for painting. Uniform absorption. One or both faces may be overlayed. Extremely resistant to checking and grain raise. Comes pre-cut for horizontal lapped siding and in regular panel sizes. Used for board-and-batten effects, soffits, gable ends, breezeway ceilings. Extensively used for siding. Painted for accent panels; superstructures, hulls for boats, commercial highway signs, garage doors and cold storage.

RESIN-FIBER OVERLAYS (high density) has greater resin content. Translucent, extremely hard, tough and abraision-resistant. Highly moisture resistant and weather impervious. Overlay applied to both faces. Readily painted, usually unfinished. Natural tone or several tints. Originally for concrete form market—highway signs with reflectorized sheeting fast growing market. Used for flumes for chemical fumes, chemical tanks; trailer linings and doors, industrial shelving, meat counters, furniture. 1958 shipments estimated at 22 million sq. ft.

SHIPMENTS of specialty fir plywood products in 1958 will probably be tabulated at about 108,255,000 sq. ft. (3/8") basis when final figures are in, according to the Douglas Fir Plywood Association. This tops the 1957 figure of 101,855,436 sq. ft. Trends give promise of continuing during 1959 to another record year.

Special plywood faces come in three categories—resin-fiber overlays —textured surfaces—hardboard-faced *Plyron*. Greatest gains in 1958 came in high density overlay and Texture One-Eleven.

RESIN-FIBER OVERLAYS are produced by applying resin impregnated fiber to one or both faces of an exterior-type panel and fusing it to the panel under heat and pressure.

TEXTURED FACES are produced by brushing, routing, striating or embossing the face veneer. These processes accent the natural grain of the wood or impose a decorative pattern.

HARDBOARD-FACED PLYRON. Hardboard serves as the face veneer. Exterior-type panels require tempered or treated hardboard. Interior-type panels allow standard hardboard.

PLYRON (hardboard-faced) panels come in 4x8 sizes usually, in thicknesses of 1/2", 5/8", 3/4". Standard hardboard thickness is 1/8". Some plane or sand surface to 1/10" thickness. Offers smooth-painting face, durable surface, excellent for work surfaces, fixtures, built-ins, cabinets and doors, underlayment and forms.

STRIATED-EMBOSSED. Varied and distinctive patterns created on these panel faces. The striated or "combed" look is achieved by machining close parallel grooves or by embossing. Process involves passing of panel between hot rolls. Many patterns. [END]

MODERN Mutual Benefit Life building towers 270 feet above the street and has 18 floors. Houses 485,000 square feet of space. Exterior of Alabama Limestone and glare-reducing glass. Large office floors of modular type.

BOARD OF DIRECTORS ROOM combines air of dignity and informality. Three walls faced with butternut plywood paneling accented with horizontal bands of Rhodesian walnut. Fourth wall has frosted plexiglas. Furniture upholstered turquoise colored leather. Linen draperies are of turquoise and gold.

Hardwood Plywood Paneling

lends distinction to insurance offices

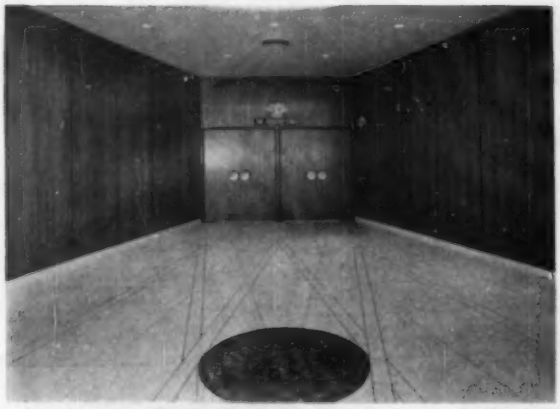
Decorative hardwood plywood was used extensively in the new 20-story home office building of The Mutual Benefit Life Insurance Co., Newark, N. J. Completed a year ago, plywood paneling surfaced the walls of the smartly decorated offices.

On the executive floor, 5500 surface feet of Limed Oak covers corridors, reception area and executive secretaries' area. Additionally, each of the private executive offices, board of directors' room, agency area, committee room, auditorium and reception area and conference display room were paneled with beautiful hardwood plywoods. Well over 20,000 surface feet was used to add warmth and dignity to informality of the highly functional offices.

Species used included: Butternut, Limed Oak, American Walnut, Rhodesian Walnut, Teak, Mahogany, English Sycamore, Korina and Birch.

The insurance home office building is a pace-setter in contemporary architecture. Inside and out, beauty and latest advancements in functional design were combined. The building was awarded Office Management Journal's merit award of "Office of the Year" for the best combination of beauty and business function.

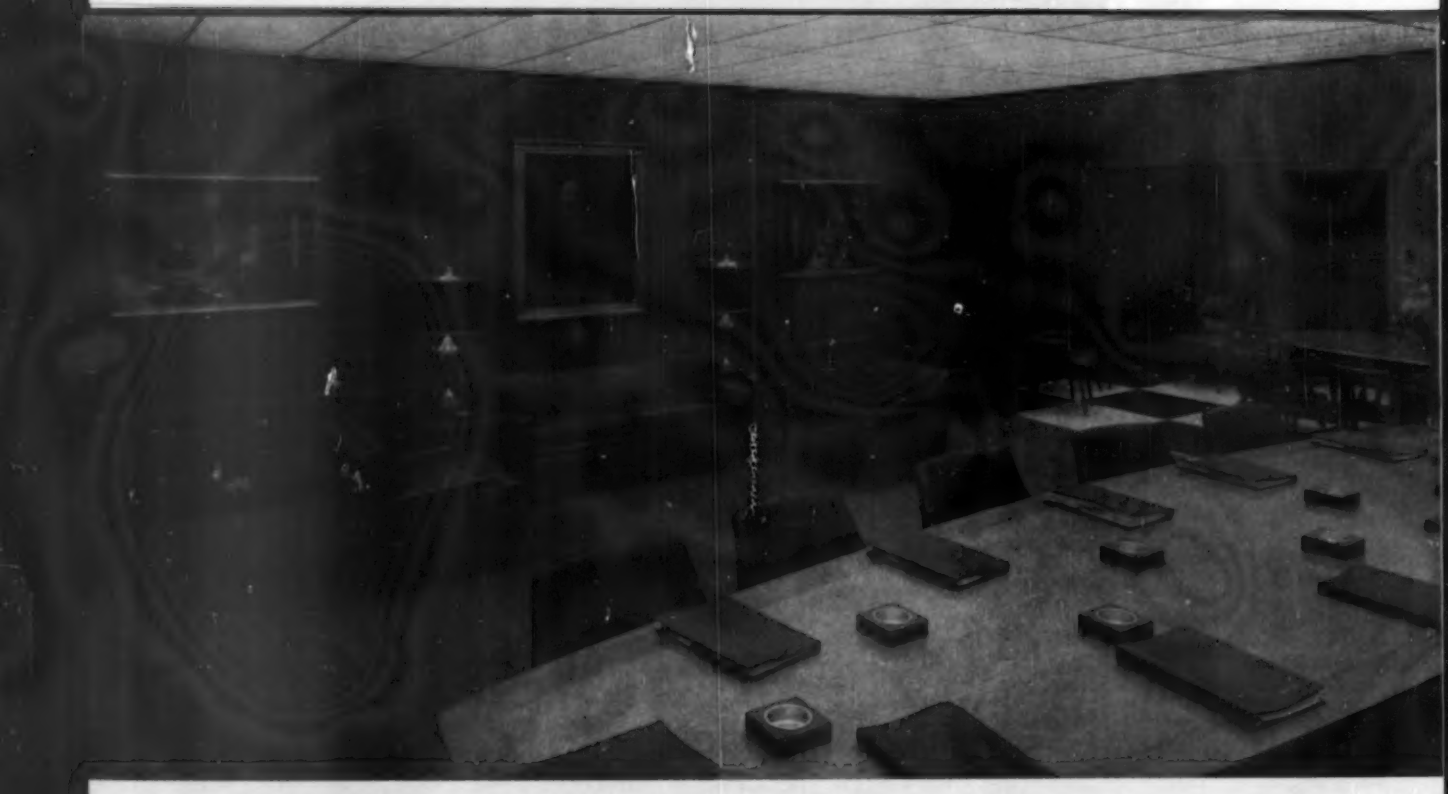
Eggers & Higgins were architects and George A. Fuller Co., contractor. [END]



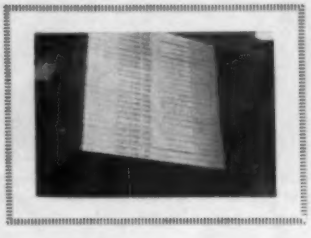
WALNUT PANELED "Pelican Room Lobby" is striking. Under bronze seal in floor is sealed historical information about company.

LIMED OAK is extensively used in the executive secretary area adding warmth and friendliness to this office section.

BUTTERNUT PLYWOOD with ebonized inserts faces three walls of the financial vice president's office of Mutual Benefit.



Prefinished Panels for more beautiful woods

. . . a cost-saving development for architects and builders

PREFINISHING has been making remarkable steps forward, particularly with hardwood plywood manufacturers during the past few months. While some companies are just getting started on prefinishing, others are improving existing production lines and introducing innovations in the process. Some have reported as much as quadrupling of orders in the past three months. Other well established plywood manufacturers, who started prefinishing as recently as a year and a half ago, report processing as much as 80% of their production in this manner.

It is now possible for architect, builder or home handyman to install beautifully smooth and properly finished wood panels in almost any species and to match almost any color scheme. Some have suggested an added coat of wax, others require nothing. The byword is "install and enjoy." The first markets were largely remodeling. However new construction uses the past year have greatly increased the demand for prefinish.

Presented here, is a closer look at some of the leading manufacturers of hardwood prefinished paneling.

GENERAL PLYWOOD CORP., Louisville, Ky., is the home of the "Super Microseal Process" which carries the trade name of *Super Satin Surface*. The wood finishing process patented by General Plywood, is performed on a high-speed, conveyorized, production line. Briefly stated, this method utilizes the lignin content present in all wood to produce a surface which is said to have no need for sealer coats or preliminary finish coats and requires no sanding. During the key process, called "Microsealing" pressure and friction are employed to create heat which literally melts the

lignin in the surface of the wood. As it cools it seals itself. Resins and additives such as Melamine are applied during the process so these blend with and become a part of the sealed surface.

The results of the finishing process, says F. A. Bade, Jr., vice president of production, "is a hard satin smooth surface in which finishing materials and penetrating additives are set in depth normally extending through the decorative face ply. Grain and fiber raising are eliminated and variations in surface textures are uniform. Processed panels or doors have an ideal base for application of varnish, paint or stain. The important thing about the process is that it gives a product that requires only one finish coat in the field."

In the majority of cases further panel finishing is virtually eliminated. To finish a *Super Satin Surface* panel in natural tones, only paste wax is applied.

The company is also Super Microsealing Douglas fir plywood panels to be used primarily for concrete forms. Satin Surfaces, Inc., a subsidiary company, is licensing agent for the process. A number of reputable companies throughout the country have already been licensed.

NICKEY BROTHERS, INC., Memphis, Tenn., rather recently added two prefinishing lines to its plywood plant. Presently it is prefinishing 15% of its production. All prefinish is hardwood and almost all of it is packaged. In the industry as a whole, according to W. Jeter Eason, vice president of the company, prefinishing has come up from 1% a few years ago to 25% of production today.

Basically, Nickey Brothers use the Microseal process patented by General Plywood. However, additional processes are employed to produce the company's two leading prefinished products—the *Vee Forty-8* and *Mark 16* panels. The *Vee Forty-8* panels have a penetrating liquid Vinyl finish and the *Mark 16* panels have a Permafilm finish, a patent of Sorg Paper Co., Middletown, Ohio.

Vee Forty-8 panels are Vee grooved random width, matching above and below, may be butt jointed for horizontal or high vertical application. They are finished by saturating with liquid Vinyl and putting through ovens to set finish. The surface is then brought to soft sheen with the Super Satin process. The *Vee Forty-8* panels are packaged six pieces to a carton available in ¼", 3-ply, 48"x84". *Mark 16* panels are 16" wide and 86" long of ¼", 3-ply, 9 pieces to a package.

Mark 16 panels are installed with new-designed fasteners applied to backs of panels prior to driving into studs. Side edges are eased slightly to form an attractive V joint. Matching molding and trim is easily produced on standard millwork items.

WELSH PLYWOOD CORP., Memphis, Tenn., claims their prefinished panels are the "only complete" paneling package. Manufactured exclusively by Welsh, the paneling package reaches customers ready for installation. Everything is prefinished—everything matches. Packages contain the following: Prefinished panels in 10 decorator finishes; panel stretchers that build up the panels to any ceiling height; prefinished moldings, choice of seven different designs; matching putty sticks to hide nail holes; match stains for accessory woodwork and built-ins.

Finishing is done under the patented E. L. Bruce process, developed by Bruce for use on hardwood floors.

PlyWelsh is the trade name. An average room takes two units. Moldings are sold to jobbers in 10-room units of each finish. The company is coming out with a new instruction sheet aimed at the do-it-yourselfer, showing how to carry panels on car tops; how to open the boxes and how to install and finish.

Prefinished moldings are bundled and bound with Scotch filament tape and then placed in polyethylene bags. The bags are also sealed with tape. This enables handling and inspection without soiling pieces.

The line consists of grooving machine, sanders, patented Bruce finish process: essentially sets of rotating brushes and series of infra-red drying ovens.

BRADLEY PLYWOOD CORP., Savannah, Ga., manufacture *Beauty Wall* and the matching Bradley doors. The plant handles the entire process, from log to prefinish panels. Sales are strictly to wholesale distributors.

Bradley guarantees both its plywood and doors. *Beauty Wall* is made with a baked in plastic finish and is advertised as mar-proof and maintenance free. It is available in ¼", 4'x8' sheets. The 4'x6' and 4'x7' on special order.

The current trend in decoration is for panels to match doors.

GEORGIA PACIFIC CORP., Savannah, Ga., calls its prefinished products *Family Proof* paneling. It is manufactured with a synthetic resin system of prefinishing. Capacity production in this plant plant is 1.4 million sq. ft. monthly and can prefinish 1.3 million feet monthly on a two-shift basis, 4'x8' panels.

According to Carl Wheeler, general manager, the company is producing a good quality panel with a minimum amount of capital investment. They also have a broad line ranging from narrow planks to 4'x7'; 4'x8', 4'x9' and 4'x10' sheets.

Company features its *One-Trip* package, a complete kit containing 96 sq. ft. of prefinished, random width planks. Sufficient retaining clips and grooved furring strips to do a wall 8'x12'. The exclusive G-P retaining clips are inserted in furring strips and locked in place. Complete line of matching moldings can be furnished.

Prefinished panels are packaged 10 to a box and 4 to a box. Planks are packaged in boxes containing 96 sq. ft. and 32 sq. ft.

G-P is now pioneering at the Savannah plant with a panel printing department. The company expects to ship 35,000 pieces of printed panels per month. According to Mr. Wheeler the big problem is now trying to get standardization.

SOUTHERN PLYWOODS, INC., Greenville, Fla., has two plants. Prefinishing is done at their Madison, Fla., plant. Production is primarily door skins.

All SP brand, prefinished wall paneling is ¼" and available in standard 4'x8' and 4'x7' panels. Edges are eased for continuing plant effects. Each panel is back-sealed and they are packaged in cartons containing 10 pieces. Sold through plywood distributors.

The company also produces *Stellabord*, a ¼"x4'x8' plywood panel with one-piece face, all white. This is produced by pressing a wet face on a

(Continued on page 110)

PREFINISHEL PANELS *(Continued)*

dry core in a press using special cauls that do not permit the steam to escape.

PLYWALL PRODUCTS CO., INC., Corona, Calif., and Fort Wayne, Inc., produce a printed plywood panel trade named *Plywall*. Philippine mahogany plywood is the basic wood on which four hardwood species patterns are printed. Patterns are oak, cherry, walnut and birch.

It derives its face from an offset process. Sizes used are 4'x7', 4'x8', 4'x10' and door skins.

Final coating applied to *Plywall* is synthetic polyclad, which is claimed impervious to all types of solvents and highly resistant to scuffs and scars. A total of 36 types are produced with variations of species or pattern, finish and texture.

Primary application has been in the field of mobile homes using ⅛", 3/16" and ¼" thicknesses. Door skins are ¼". Shipping packages of *Plywall* are two kinds: one for distributor handling and one for commercial customers. Distributor package has six pieces to a package.

UNITED STATES PLYWOOD CORP., Orangeburg, S. C., hardwood plywood plant completed extensive expansion this past year. The prefinishing addition incorporates a production line approaching nearly complete automation, with a production of 50,000 sq. ft. per 8-hour shift. Anticipated output for the year is 13,200,000 sq. ft. of prefinished panels. The line sands, coats, bakes and finishes panels much like an automobile finish is applied.

Rollcoaters, brushes, buffers and ovens occupy their respective places along the production line. When the top coat is dried, panels pass successively through a Timesaver sander, rubbing machine and top coat buffer.

Panels are packaged six to a package with sheets of white bond paper between panels. The whole production line requires 7 men and requires 97 minutes to travel the full 784 feet of the line to package.

Panels are merchandized under the Weldwood trade name in a wide variety of species, serving the home, office, store and other non-residential structures. Panels are planned for unusual and beautiful effects, completely finished with no further surfacing required.

RODDIS PLYWOOD CORP., Marshfield, Wis., is one of the early pioneers in prefinishing of hardwood panels. At present the company is prefinishing about 1500 4'x8' panels daily. In addition to panels the company handles custom orders. However, vice-president and general manager, William H. Roddis, states that the farther a plant gets from standardization, the more difficult it is to show a profit.

Craftwall, which is the trade name for the company's products, is prefinished by a "built-up" system employing a conversion type lacquer. Prefinishing production line consists basically of a series of rollcoaters, drying areas, buffers and polishers. Production at the plant runs the complete cycle, from logs through packaging of ready-to-install paneling that requires no further treatment. [END]

Hardwood Plywood Plant Names Distributor

Chinn & Hall Co. has been named exclusive distributor for products of Sheridan Hardwood, Inc., Sheridan, Ore.

The new plant, just in production, is laying up native hardwood plywood panels of alder and maple. It will also produce door skins of native and foreign woods and industrial panels.

A specialty will be particle and hardboard faced with veneer.

Moore Heads Office

Emory Moore, one of the founders of Fiddes-Moore & Co., which is now a subsidiary of Evans Products Co., has been named to head the new office of the firm in Portland, Ore.

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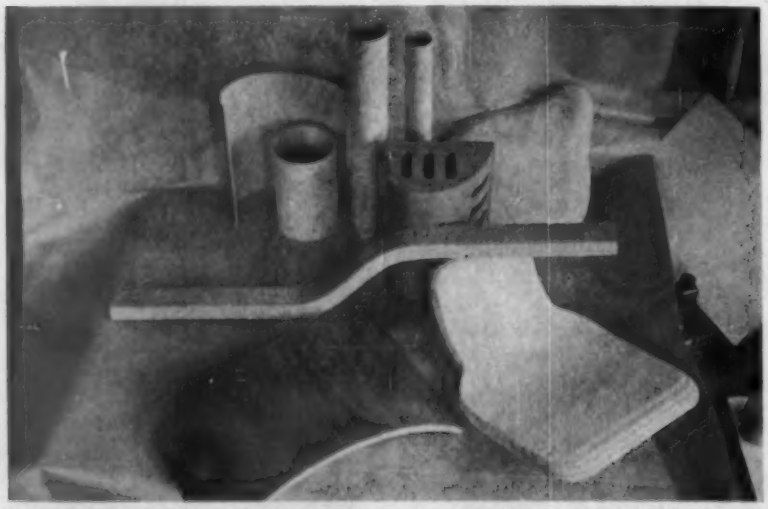
Gerald Nessler Promoted

New plywood sales manager for Diamond Lumber Co., Portland, Ore., is Gerald Nessler who has served as assistant sales manager for the past three years.



SPECIAL PRODUCTS being manufactured at Nitto Veneer Manufacturing Co., Ltd., Tokyo, Japan, are pictured above. They include plywood tubing which has been spirally elongated to more than three ply of veneer, chair back panel, electric heater, autocycle saddle. Many of these items have melamine, formaldehyde or resin surface.

New Laminating Firm Names Sales Manager

Frank Phibbs, a veteran of 14 years in the sale of plywood and veneer, has been named sales manager for Columbia Laminating Co., a recently established Portland, Ore., firm.

FRANK PHIBBS

Columbia Laminating Co. is a partnership of two Northwest plywood industry veterans — Theodore Nicolai, associated with several plywood and woodworking plants in the Pacific Northwest, and S. L. Michael, a veteran in plywood manufacturing sales.

The plant will produce a variety of forest products which combine particle board, flakeboard, veneers and lumber.

●

North-Robbins Adds Southeastern Rep

Eugene L. Allan has been named southeastern representative for North-Robbins Plywood, Inc., Seattle, Wash. He will headquarter in Jacksonville, Fla., and cover the 12 southeastern states.

North-Robbins, which handles sales of plywood, doors and mouldings, also has L. D. Houghton headquartering in Palo Alto, Calif., and William F. Austin working out of Evanston, Ill.

The Distributor's Place in marketing plywood

By Louis G. Riecke, vice president

Tulane Hardwood Lumber Co., Inc., New Orleans, Louisiana

It is interesting to note a recent experiment by one of the largest manufacturers of building material in the nation. For obvious reason, I will mention no names but I will say that his product is extensively nationally advertised and that it has very fine public acceptance. This manufacturer decided in one of the larger Southern cities to discontinue selling through his established jobber and try selling direct.

The manufacturer found that after a short time he had retained practically all of the volume he formally enjoyed through the jobber in the metropolitan area. However, his total volume in the entire trading area was reduced, I am informed by better than 50%.

The reason, of course, is obvious. The jobber who formerly served this manufacturer no longer had his many salesmen soliciting for the manufacturer's most important markets. They buy small quantities of many diversified items of building material and the jobber loads his truck daily, feeding the rural markets their requirements.

It is not unusual for a retail lumber dealer to buy five or six or even more items from a jobber salesman, each of which in itself contains small dollar volume but collectively is substantial. When the manufacturer of one of these products decides to strike out on his own and loses his jobber distribution, he finds it impossible to service this rural market and thus, it is lost to him completely.

This manufacturer, about whom I write, is now frantically seeking distribution in this Southern city and even though he has one of the most widely advertised building materials which go into a home, none of the better jobbers are even remotely interested. This producer through his own experiment learned a very important lession in product distribution.

Let us consider plywood specifically. Because of the marvelous work they have done over the years in promoting and finding new uses for plywood, The Douglas Fir Plywood Association has created a market situation whereby plywood is not the speciality item it was many years ago, but is now a commodity in every dealer's warehouse. The few dealers in the larger cities of our country are able to buy plywood in carload lots with specifications attractive to the manufacturer. There is, however, a very extensive area outside of the larger cities in which dealers buying in carload lots, purchase their requirements with many items specified for the same car.

Invariably there will be items in the car not especially desirable to a manufacturer. The good distributor knows the kind of an order each mill wants and generally is able to come up with specifications suitable to a specific mill's production. If the mill's logs are running high in quality he can furnish specifications heavy to AA or sanded; if medium heavy, heavy to 5-ply or if low quality logs are being peeled, he can provide that mill with orders for straight cars of sheathing, thus channeling to each mill the type of an order they want. Thus the jobber is performing a service for the dealer and the manufacturer which is impossible to replace.

There is the question, too, of credits. Certainly, I have no desire to reflect on the credit of the retail lumber dealer. He is our customer and our credit experience with him has been excellent. However, there are many small dealers collectively selling millions of feet of plywood to whom a carload of plywood would present a strain, credit wise. Because he would not get his normal turnover, a carload purchase would actually be less profitable to him, especially since jobbers will sell him out of warehouse at practically carload prices anyway. It is also easier for a manufacturer to sell a few hundred jobbers than to play the field among the thousands of retailers.

Certainly every wise producer will look beyond a few large city markets and realize that to lose warehouse jobber distribution with its vast diversification and rural coverage is to lose the bulk of his market.

Certainly production plants and their sales managers are not unaware that the jobber with his multiplicity of warehouses and innumerable salesmen calling on dealers in the most remote parts of the country are going to push the product of those manufacturers who recognize the jobber and his function to the detriment of those who do not.

The jobber has for many years held an important place in the distribution of plywood and will continue to do so just as long as he profitably performs these functions for the manufacturer.

"The plywood market probably could be doubled if all elements of the industry would put their shoulder to the wheel and generate the teamwork necessary to do this monumental task, "Roland R. Remmel, president of the National Plywood Distributor's Association told the hardwood plywood manufacturers in their recent meeting in New Orleans, La.

"When our plywood capacity is doubled, and our industry is selling twice as much as they are today, the receivable load on the stocking distributor will be tremendous. It will be impossible to attain this goal on a cash and carry basis. It is in the best interests of the producers to help the stocking distributors make a profit. These profits will be needed to assure sufficient bank credit to carry the load of the plywood boom which is still in the future."

At the same meeting, M. C. Davidson, past president of NPDA and Southern Sash and Door Jobbers Association, said: "The jobber plays a very important part in the plywood industry. He is the vital link in distribution. The service he renders is indispensable for he maintains a large variety of inventory in order to service adequately; he maintains a full time sales organization to market your products; he extends credit to worthy accounts and all-in-all performs many services that would prove very costly to manufacturers. Therefore the warehouse-jobber must be recognized the natural and most economical outlet for distribution of plywood and he should be paid for the function he performs." [END]

World Reports: International plywood production in 1957 climbed to 13.2 billion square feet vs. 12.7 billion in 1956. U. S. leads in output, followed by U.S.S.R., Japan, Canada and West Germany.

TOTALS FOR MAJOR PLYWOOD PRODUCING COUNTRIES

(Million square feet, 3/8-inch basis)

	1957			1956		
	Production	Imports	Exports	Production	Imports	Exports
EUROPE						
Czechoslovakia	120	....	18	114	1	8
Finland	327	....	293	307	....	259
France	327	15	43	292	....	14
Germany, West	581	20	52	523	15	43
Germany, East	43	....	....	42	....	....
Italy	176	.79	16	176	1.6	16
Poland	220	....	6.7	183	....	5.6
Spain	90	....	4	63	....	2.8
Sweden	68	11	11	62	8.7	13
United Kingdom	55	438	2	55	314	2.7
U. S. S. R.	1,306	14	113	1,258	13	48
CENTRAL AMERICA	12	12	8	12	6	10
NORTH AMERICA						
Canada	892	28	72	1,128	27	74
United States	6,774	565	14	6,684	471	15
SOUTH AMERICA						
Agentina	53	....	....	52	....	....
Brazil	107	....	53	112	....	53
Colombia	27	....	....	17	....	....
AFRICA	158	68	62	153	45	68
ASIA						
Israel	32	....	12	23	....	9
Japan	1,070	....	371	963	....	305
South Korea	23	....	....	15	....	....
PACIFIC AREA						
Australia	107	10	....	96	10	....
New Zealand	21	3	....	19	4	....

Source: Food and Agriculture Organization of the United Nations, Rome, Italy.

United Kingdom

PLYWOOD BUSINESS in Britain went ahead in 1958 in spite of credit restrictions which hit the main user markets for the first half of the year. Just how optimistic the plywood importers were for improving business can be seen from the fact that the total 1957 import was 387,000 cubic meters (itself far in advance of the 277,000 cubic meters the year before), but by September of 1958 the importers had already placed under contract more than the total import for 1957.

Prices stiffened during the year, in marked contrast to the trend in lumber prices, and the improved demand later in the year gave hope that 1959 would see further advances. Perhaps the greatest single event for pride in 1958 for the U.K. plywood trade was the clean bill given to the industry by the Monopolies and Restrictive Practices Commission after an inquiry lasting over two years. The plywood trade was said to be free from any trading rings, though the softwood and hardwood lumber sections were accused of operating restrictive practices.

Plywood production in Britain suffered a setback. No new factories were opened and one large plant was closed. The Dagenham factory of John Wright and Sons (Veneers) Ltd. was closed, and the machinery was later sold to a plywood concern in Cuba in which John Wright has acquired an interest, and later in the year the equipment was dismantled and shipped overseas. The immediate cause of the closure was the credit squeeze and the cancellation of government contracts in connection with aircraft.

British production of plywood for 1958 was certainly expected to fall below the 49,400 cu. meters of the previous year, but the outlook for 1959 indicates a return to a level possibly slightly higher than the 1957 figure, mainly because of a recovery in the furniture trade.

The great bulk of U.K. production and imports of plywood continues to be in hardwoods. Looking at the supply sources there are some changes in the pattern. More and more plywood is being purchased from Nigeria, Ghana and Israel, the production of Israeli plants finding increasing support. More Japanese lauan plywood was bought in 1958, but this was due to the amazing low prices quoted by the Japanese mills right up to the time, toward the end of the year, when they introduced an export quota for the U.K. market and tried to stabilize prices.

Russian sales of birch and alder plywood shot ahead to a post-war record, the final contracts closed being in excess of 100,000 cubic meters, but out of this quantity only some 70,000 cubic meters were expected to arrive before ice closed the ports.

The main supply source continues to be Finland, and the steady prices quoted by the Finns during the year helped to encourage business on a forward basis among the importers.

A small reduction in Canadian Douglas fir plywood imports was expected in 1958, but the ground will probably be recovered in 1959. Reason for the fall has been almost entirely the lower volume of building work in the U.K. credit restrictions and a bank rate of 7% for part of the year discouraged industry from embarking upon fresh building work, and this was a setback from the commercial building boom of the previous year. Towards the end of 1958, however, there were signs of increased interest in new factory and office construction, and the outlook for Douglas fir plywood improved.

There is a movement in the U.K. to have Douglas fir plywood distributed by the softwood trade rather than the plywood trade. Its main outlet is outlet is in the building industry, which is dealt with almost entirely by the softwood importers, and is rarely handled by the plywood firms, which mainly specialize in the furniture industry.

Douglas fir plywood made some advances in the shipbuilding industry, but the full possibilities were not exploited because the industry went through a minor recession.

At leading exhibitions the advantages of fir plywood of exterior grade were often displayed, and architects showed growing interest in the use of fir plywood in decorative form, especially in panelling. But here there

has been increasing competition from the hardboard and plastic trades.

Within the U.K. lumber trade there is general agreement that the possibilities of fir plywood have not yet been fully exploited, especially in the constructional trades. Some progress might be made here in 1959, but a handicap is still the tight control by the plywood trade over the entry of newcomers to the lists of importers.

Finland

Plywood production in Finland fell during 1958 because of reduced exports. The reduction was of the order of 15,000 cu. metres, but the position is expected to be corrected in 1959. Value of plywood exports rose sharply, partly due to devaluation, but also to some recovery in selling prices. The export tax on plywood exports was entirely removed during the year.

Sweden

Production and export sales of plywood from spruce and pine in Sweden declined in 1958, due primarily to a drop in export demand. Final figures are expected to show that the exports were down to the 1956 level, but there was a significant improvement towards the end of the year which is expected to continue into 1959, and there is every expectation that sales in 1959 will more than recover the ground lost in 1958.

South Africa

Plywood manufacture in South Africa has been riding a boom in recent years, and the story of the two major plants, Plywoods of Parow, Cape Province, and Veneered Plywoods S.A. Ltd., of Boksburg, Transvaal, is one of continuous expansion. There are two other factories, rather small in comparison with the two major concerns, one in Durban, Natal, and the other in Stellenbosh, Cape.

More than 80% of South African plywood comes from the Parow and Boksburg factories. The Parow factory, which also has a plant at Germiston, Transvaal, has existed for 38 years and the Boksburg organization for 10. Indicative of the expansion is that Veneered Plywoods of Boksburg are now in a £500,000 factory.

It is estimated that the total plywood output is 6,000,000 square feet a year from the two plants.

Its main uses follows the pattern in most countries—for furniture, shop fittings, doors and panelling. Local consumption takes the bulk of the product because in the entire post-war period—with a slackening off only showing to any extent this year—every town and city in the Union has known a building boom.

Japanese Plywood Production and Export, 1954-1958

Unit: Million Sq. Ft. (4 mm. Basis)

Year	No. of Plant	Production	Domestic Consumption	Exported U.S.	Exported Eng.	Exported Canada	Exported Other	Exported Total	% Exported
1954	168	1,404	954	311	94	9	36	450	32.1
1955	171	1,800	1.190	436	110	17	47	610	33.9
1956	186	2,250	1,574	541	58	25	52	676	30.6
1957	223	2,661	1,779	663	116	41	62	882	33.1
1958	223	2,900	2,015	660	120	40	65	885	30.5

Source: Up to 1956 Japan Plywood Inspection Corporation, 1957 Forestry Agency, 1958 estimate. Domestic consumption includes veneer chest for export for Ceylon and special procurement in Japan by U. S. Armed Forces.

Big local output has reduced plywood imports but it is still quite large. It is obvious though that increased South African output will cut in on imports.

South Africa is exporting plywood to the African sub-continent and there are frequent deliveries to Australia and New Zealand. South Africa plans to increase exports.

Apart from plywood core which is made from South African pine, the raw material for plywood is imported, more especially red tola from French Equatorial Africa, mahogany from the Philippines and kiat and imbuia from the eastern countries.

Logs are shipped to the Union and are rotary peeled here. Plywoods of Parow, however, have their own factory, too, for this purpose at Point Noire in French Equatorial.

Australia

After a temporary setback during the preceding year, the Australian plywood industry finished 1957-58 with a record production. The figure of 225.3 million square feet 3-16-inch basis to June 30, 1958, was 14.4 million square feet above the previous record year of 1955-56. Since the end of World War II Australian plywood production has more than doubled.

Imports into that country during 1957-58 amounted to 20 million square feet from the New Guinea plywood factory and an additional 2.8 million square feet from all other sources, principally Japan. Under severe import quotas applied by the government of Australia the latter figure is the maximum of such imports allowed.

Over the past five years the per capita consumption, despite the large increase in population due to the migrant intake, has increased from 19.2 to 25.4 square feet.

It is realiably estimated that during the past ten years the expenditure on plant and equipment in the plywood industry of Australia has been more than during the preceding 30 years of its existence. This has been particularly noticeable during the past five years.

When it is considered that over 60 species of their indigenous timbers are used in the manufacture of plywood, it can be appreciated that the industry needs to keep up with modern techniques and equipment. Using such a mixture of different kinds of woods, it surely must be the most versatile industry in the world.

There are 39 plants in Australia commercially producing plywood and a further 18 producing rotary veneers only. Several of these plywood manufacturers also produce sliced cut decorative veneers. The industry is centered principally in Queensland where 70% of Australia's plywood is produced. That state has 19 of the plywood factories and 14 of the rotary veneer plants mentioned above. The rapid expansion in the number of new plants which took place in the immediate post war years has now slowed down and only one new plywood factory is currently in the course of erection.

The organization of manufacturers, called the Australian Plywood Board, reports that although it is a voluntary organization all but one plywood plant and three rotary veneer producers are members.

Philippines

There are 15 plywood plants with an estimated total rated capacity of 428.4 million square feet. Another plywood plant is expected to commence operations in the middle part of 1959. The industry, however, faces not only the problem of producing to meet domestic and foreign demands but also is confronted with the problem of achieving high-quality commercial standards in order to meet quality requirements abroad. To accomplish this end, attempts were made for standardization of manufacturing grades with the help of the Philippine Standards Association, the Bureau of Commerce and the Plywood Manufacturers' Association.

With the technical help of the Industrial Development Center, a study group composed of grading assistants of the majority of the plywood factories was organized under the supervision of Dawson Zaug, a plywood expert, for a concentrated study of

(Contiued on page 114)

grading techniques and methods in the Forest Products Laboratory at Los Banos, Laguna. Seminars were also held in quality control in plywood manufacturing.

Stiff competition offered by Japanese plywood in the United States market poises another problem for the industry. In fiscal year 1956-57, 89.4% of Philippine logs were exportto Japan which were being manufactured into plywood by that country and exported to the United States. Had it not been for Japanese competition, the Philippines would have sold 24,853,812 square feet of plywood in the United States. To protect the local plywood industry, a bill was introduced in the Philippine Senate prohibiting exportation of logs to any country. This bill, however, was not passed into law. But the trend of congressional thinking which will be reflected during the 1959 sessions is to limit the exportation of logs by imposing export taxes, and administratively limiting grant of forest concessions to loggers not engaged in processing of logs to finished or semi-finished products.

From an estimated growth of 8% in domestic construction, production figures are expected to rise from 238.2 million square feet in fiscal year 1957-1958 to an average increase of 289.7 million square feet during the next four fiscal years. Exports are expected to increase correspondingly at an average of 92.45 million square feet during the same period.

Mexico

Plywood production in Mexico in 1956 totaled 3,402,633 square meters, Veneer output totaled 1,581,541 square meters.

The industry has been operating at about two-thirds capacity following a build-up of a surplus in 1957 and early 1958. However, the supply-demand picture has improved and the production tempo is picking up.

Mexico produces a high percentage of fine grade hardwoods and better grade pine plywood. Over 50% of the productive capacity is located in regions characterized by tropical hardwood forests.

However, export demand, particularly from the United States, the principal importer, is largely for lower grades.

Until larger local markets can be developed for the better grade plywoods, production will remain below capacity.

Brazil

There are 331 plywood plants registered in the National Institute of Pine, in Brazil, as follows: Seven in Sao Paulo, 235 in Parana, 54 in Santa Catarina, and 35 in Rio Grande do Sul. Species used are hardwood and pine.

Japan

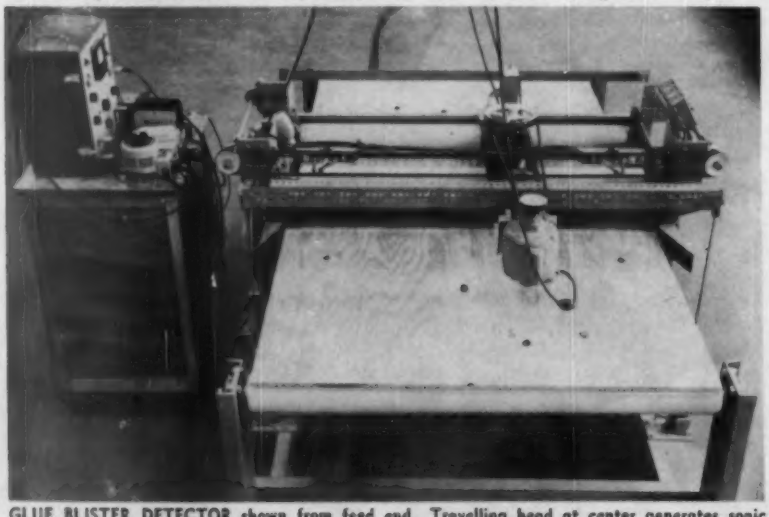
Demand from the United States for lauan plywood from Japan for use as doorskins has awakened the Japanese market to plywood and has been a factor in increasing national consumption of the material.

About 82% of Japanese plywood is of lauan from the Philippines and Borneo and 18% is from indigenous woods.

In 1957, export of Japanese plywood to the U. S. was voluntarily restricted to 663 million square feet of which 77% was lauan. In 1958 the quota was set at 660 million square feet which is being strictly observed. The exporters association and the manufacturers association are working out new quotas for 1959 in view of changed conditions. Also being considered is establishment of a joint sales company to be composed of makers of export items. [END]

Sound Waves Detect Glue Bond Defects

HIDDEN BLISTERS or defective glue bonds can be detected by a unit developed by the Forest Products Laboratory of Canada, Ottawa, Ont., Canada, according to a recent announcement by the laboratory. When a plywood panel containing a blister is rubbed, the sound produced by rubbing over a blister is slightly different from that produced by normal plywood. The laboratory used this principle along with equipment and technical advice from the National Research Council to produce the new machine.



GLUE BLISTER DETECTOR shown from feed end. Travelling head at center generates sonic wave passing into plywood and bouncing back, detecting any imperfections in bond.

The detector unit is a rotating brush assembly which excites sonic vibrations in the plywood. In a Sonar-like operation, some of the sound bounces back to a microphone contained in the rotating brush. The bounced sound is converted into electrical energy which, when automatically "compared" electronically to the normal echo, activates a marker which marks the spot.

The laboratory claims the unit will provide checks, with some modifications, to detect hidden flaws in other materials such as curved plywood boat hulls, honeycomb-core panels, sandwich constructions, overlaid panels, particle board, and other multi-layer combinations of wood, metals and plastics.

Engineers worked for more than two years perfecting the device. A patent has been applied for the device and Canadian Patents and Development, Ltd., will administer licensing for commercial production of the detectors in Canada. [END]

One Man Edge-Gluing Line provides uniform core veneer for Cascades Plywood

COST SAVINGS for Cascades Plywood Corp., Lebanon, Ore., are considerable, with a new edge-gluing line producing uniform, 3-piece core stock.

Raw material savings are made through eliminating excess overhang last as trim. Glue which would be spread on the excess trim is also saved. Labor savings result from increased spreader production through handling fewer pieces of uniform size core.

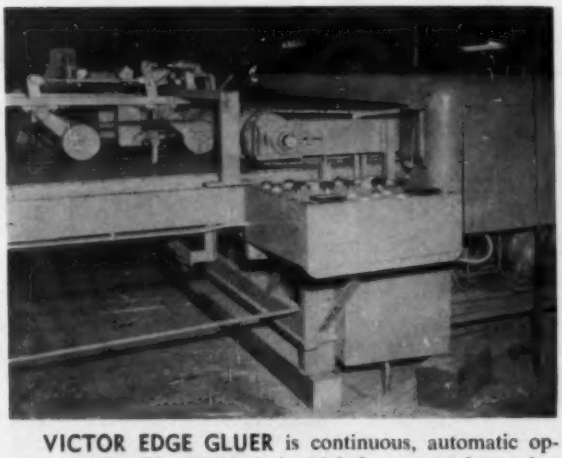
Higher quality plywood is an added advantage with the fewer core pieces producing less joints, no lapovers or open spaces.

The single operator feeds stock into the machine with all operations automatic from that point through to stacking at the offbear end of the line. Square-footage production is 28,800 surface ft. per 8-hour shift on a ⅛-inch basis, with the Victor edge-gluer line operating at 20 feet per minute.

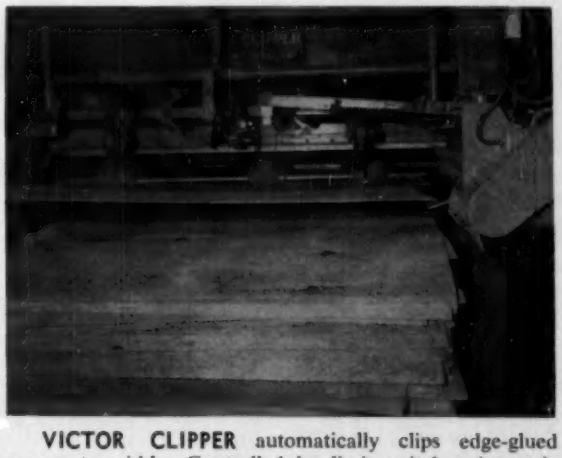
The equipment was supplied by E. V. Prentice Co.

VENEER JOINTING is done on traveling-head jointer in continuous line. Following jointing of each sheet, saw returns to far right. As each sheet is fed in, a "seeker" senses edge of sheet. Seeker is ganged with saw, stopping saw at correct position to joint ⅛-inch from sheet when rolls actuate to pull sheet into machine. Fixed saw at left joints left side for double-edge even jointing. Sheets offbear across skid bars to allow trim to drop onto refuse conveyor. Glue is sprayed onto left edge of each sheet.

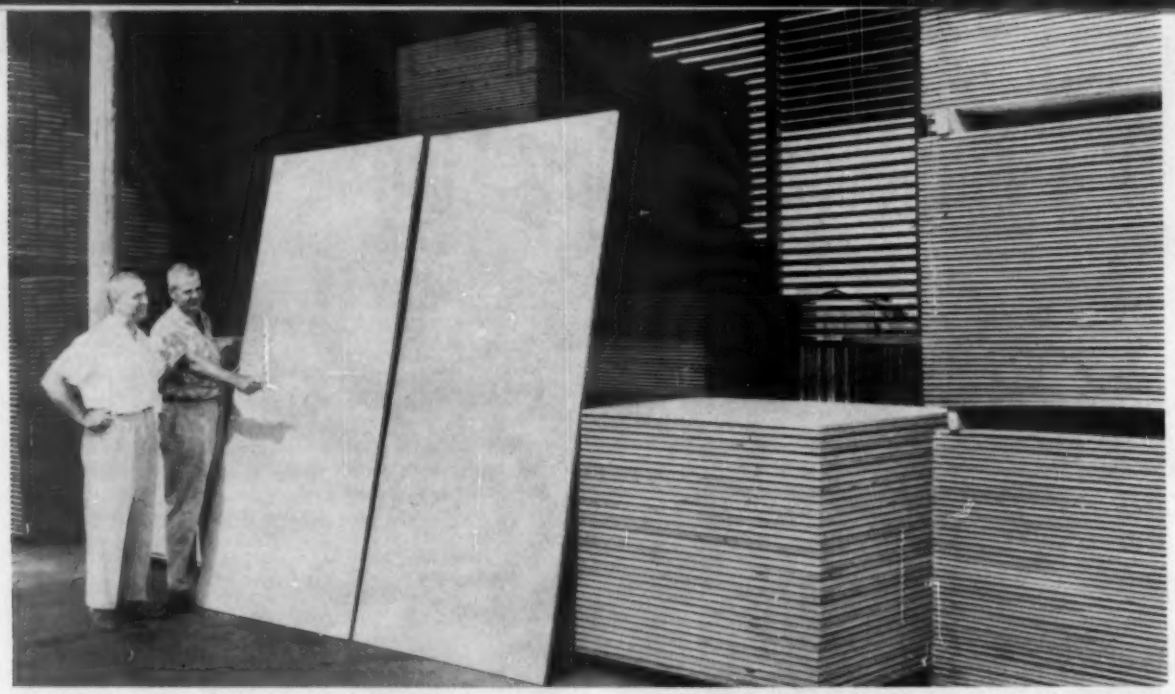
TRANSFER DEVICE (right) picks up sheets after glue-spraying and transfers them edge-wise by rubber wheels toward electronic gluer (left). As sheet passes under photo-cell (foreground), it drops rubber wheel which pulls veneer flush against straight-edge, foreground, for squaring. As veneer edge passes under second photo-cell at center it raises squaring wheel to allow sheet to pass on through on chain into edge-gluer. Back side of mirror, top right. Mirror enables operator to check proper operation.



VICTOR EDGE GLUER is continuous, automatic operating unit. Glue-setting is by high frequency electronics. One man feeding line makes whatever adjustments required.



VICTOR CLIPPER automatically clips edge-glued veneer to width. Controlled by limit switches (center). Stacker employs fan-like receiving arms which revolve, dropping veneer for uniform stacking. [END]



ITS HARD TO TELL treated from untreated. Herbert W. Angell, right, plant superintendent, and president & general manager Clint Hallsted, examine treated and untreated panels. Untreated panel is on the right. Note louvered vents in pole type shed which regulate air passage.

How to Make Plywood Termite Proof

A pressure treatment that has written "finis" to termite damage of plywood, works on softwoods, hardwoods and prefinished panels

By CLINTON T. HALSTED,
President, Honolulu Wood Treating Co., Ltd., Honolulu, Hawaii

"**THE PROBLEM** we faced was to make plywood immune (or nearly so) to several species of the hungriest termites in the world. Dipping plywood in a preservative had failed and using toxicants in the glue would not do the job.

We had the problem licked as far as Exterior type plywood for structural uses was concerned because WOLMANIZED pressure treatment had been in service for over 20 years and had given excellent results. Because it is a water-borne preservative, however, it was not suitable for use on Interior type plywood, and because it turns the wood a pleasing greenish brown color, it was not suitable for fine hardwoods or where the natural color was desired.

We were after the interior use market where all species of wood would be used for millwork, cabinets, wall paneling, etc. That is where we had to find a perservative that would not only do a good job of treatment, but would not discolor the wood or change it in any physical way. Our technical director, Mr. Herbert W. Angell, a seasoned veteran in wood preservation, embarked upon experiments in a specially built vacuum-pressure pilot plant with various preservative formulations and it was decided that Water Repellent Penta was the answer. We now use the formulation recommended by Chapman Chemical Co., which consists of Dow Chemical Company's oiled Penta, Chapman's Premix and a suitable solvent. Union Oil Company's S-76 solvent proved to be the best carrier that we tried. Although we are not using it, we found that Wood Treating Chemical Company's formula would also do the job mixed with Union Oil's S-76 solvent.

We went to work using our No. 2 retort, a 6-ft. wide by 37-ft. long steel vacuum-pressure cylinder, which, to speed up operations, has a Harris quick-closing door on it. Our fill and transfer pump gave us fast filling and emptying of the cylinder which is a necessity in this type of treatment. Our first order was for 50,000 sq. ft. of ¾" Interior type Douglas fir plywood for a military job on kitchen cabinets. We were more than pleased at the excellent results of 100% penetration throughout the plywood and the cleanliness and paintability of the product. After over a year in service, this material has had no bleed-through, paint blistering, or other troubles which have been common with this type treatment, and, of course, no termite trouble.

TREATING SPECIFICATIONS. The standard treating specification of the American Wood Preservers Association and Federal Specification TT-W-571 for empty cell pressure treatment is followed and Federal Specification TT-W-572 covers the water repellent preservative. The paintability time factor under TT-W-572 for Ponderosa pine is adjusted for Douglas fir. Specifications normally call for .30 lb. dry Penta (6 lb. solution) per cu. ft. of wood. By close control of pressures and vacuums for various species, types, and thicknesses of plywood, 100 per cent penetration is obtained with the quantity of preservative that is specified. The trade soon tabbed the treatment as "Penta Pressure" since Water Repellent Penta Pressure Treatment was too much to say at one time. Where "Penta Pressure" is used in this report, we will mean, of course, water repellent Penta as distinguished from the oily Penta- petroleum as used for utility poles.

Paintability of Douglas fir immediately after treatment is a problem. We found that the solvent must be completely and thoroughly volatized out of the wood before it can be painted. By use of a special drying process, volatization can be accomplished in about two weeks.

NO DETRIMENTAL EFFECTS. The resultant product is one which leaves the wood the same as when it went into the treating cylinder except that it now has chemicals added to make it termite, rot, and stain resistant, and resins and waxes to make its moisture repellent. The treatment will not warp, swell, shrink, or cause grain raising. Both Exterior and Interior types of plywood can be treated. Using the standard retention of pentachlorophenol, the treated material is rendered lethal to termites or fungi causing rot.

Since "Penta Pressure" treated Douglas fir plywood can be glued the same as untreated plywood, it is being used as a base for "Formica," "Micarta," and other plastic counter top materials.

The added cost for this pressure treatment is from 4c to 6½c per sq. ft. for Douglas fir and is based upon thickness. Plywood panels of any thickness or length and widths up to 5 ft. can be treated.

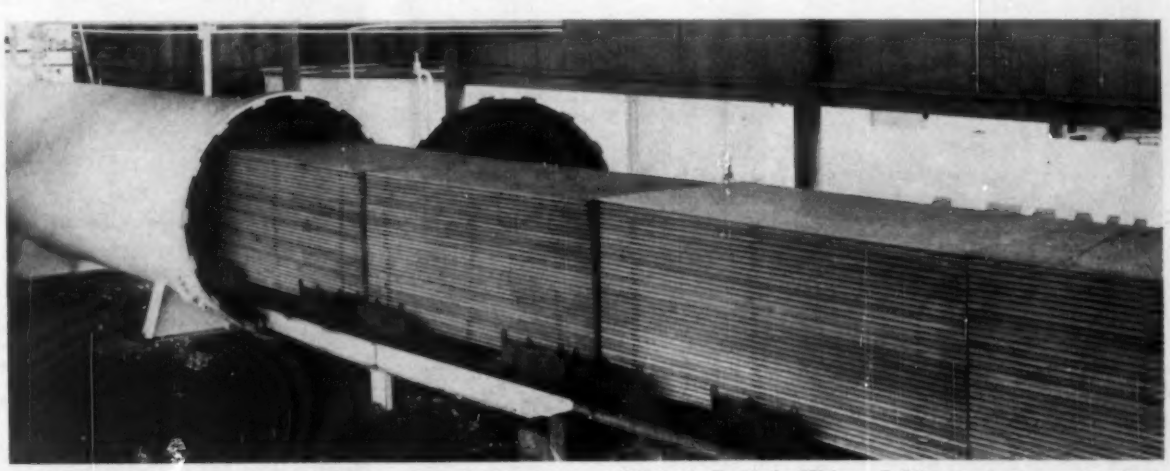
TREAT PREFINISHED PANELS. Termite damage is not limited to Douglas fir and our success with treating it has led us into a sizable amount of treatment of Lauan and the hardwood plywood field. We have done several specialty jobs involving Prefinished Walnut and White Oak paneling. "Penta Pressure" treatment can be accomplished on prefinished wood and the treatment has no harmful effects on the prefinishing. Actually, the treating solution does not penetrate through the prefinished face, but goes through the back side and the edges so that 100% penetration of the wood is assured. Extreme care must be taken not to "burn" the prefinishing causing white specks to appear on the prefinished faces. On one job, the Military inspector remarked "it looks the same as before it went into the cylinder," and that it did.

Our biggest headache was on hardwood paneling, prefinished plywood, and other material where sticker marks and other blemishes are prohibited. Extreme care in handling the material for processing, alert plant operation, and post-treatment "kid-glove" care are absolutely necessary. Any deterioration or damage to this high priced stock would be disastrous. Thus, carefully controlled procedure of treating and subsequent drying was developed.

SPECIALTY ITEMS TREATED. Many different types of specialty items made of Douglas fir plywood such as boxes used for storage of small hardware items—nuts, bolts and screws, can be treated after they are built up because "Penta Pressure" treatment will not change them physically. Our operation is not limited to plywood as we are pressure treating lumber items of many species, furniture stocks, window sash, and doors. Flush and panel type doors, solid core and hollow core, with either Douglas fir or hardwood skins are being pressure treated with Water Repellent Penta after they are built up. Not all of our plywood volume is for "Penta Pressure" treatment as we do have those who prefer WOLMANIZED treated plywood for many uses and some customers, such as the outdoor sign company, which prefer WOLMANIZED treated HARBORITE plywood for cutout letters and backing in their signboards.

TRADEMARK TREATED PANELS. Since it is very difficult to identify as having been treated, and in order to merchandise a quality product, all of our "Penta Pressure" treated material carries our registered trademark which is stamped on each piece of wood.

Heretofore in Hawaii, plywood was used with the expectation that sooner or later those little tell-tale pellets from drywood termites would appear. No one can estimate the annual monetary loss due to these pests, but authorities agree that it is in the hundreds of thousands of dollars. It looks like pressure treatment has written "finis" to that waste once and for all. [END]



FULL CYLINDER LOAD consisting of 148 pieces ¾" – 4'x8' Interior type Douglas fir plywood is "Penta Pressure" treated in one charge. Cylinder is 6' wide by 37' long. Building is pole type construction to keep wood dry. Penta solution storage tanks in background.

There's Good News In Glues

Adhesive researchers promise with new and important developments in 1959

- **Some changes in Plywood manufacturing methods**
- **New paper glue line that may solve continuous layup**
- **Quality control men in every plant**
- **"Marriage of plywood into fiber field**

GLUE COMPANIES are getting deeper into the business of acting as one of the technical arms of the plywood industry and due to competition, they place special value on "customer relations."

Plywood managers look to glue manufacturers for help in solution of innumerable problems—and they get it. For example, glue mixers are trained by the adhesive suppliers, rather than by plant management.

Thus, faced with a competitive situation, the adhesive suppliers have invested millions of dollars in the battle of product improvement and technical service. They feel it is paying off in better glues, better plywood and a healthier industry. But—the glue manufacturers expect the plywood industry to show more action—and attain and develop more knowledge—in the search for new and better uses for plywood and in their own quality control programs. One manager said, *"There definitely should be one man per plant exclusively on quality control and with the authority to make changes. He would pay for himself through a better product, fewer claims."*

"PGL IS HERE—the Paper Glue Line will be introduced in 1959," says an announcement by one company. "Others can be expected to follow." If adopted 100% by a plant, it would mean farewell to the glue room and the glue spreader. It would mean knocking out a bottleneck that has plagued the industry all its life.

Production of more and better plywood adhesive is a certainty, with at least two new plants and two new research centers either opened or under construction.

CONTACT GLUE for edge gluing of veneer is a subject which has exponents on both sides of the fence. Some plants are already mass-producing edge-glued veneer with contact glues, while many others are taking careful looks at the process.

During 1958 the plywood plant of Canadian Western Lumber Co. at Fraser Mills, B. C., a division of Crown Zellerbach of Canada, began edge-gluing with F-1 contact-type adhesive. This new ready-mixed adhesive is a water emulsion with a synthetic rubber base.

The jointing and edge-gluing operations are performed with conventional equipment. However, the edge bonds are produced through the application of crowding or edge pressure only, without the use of heat.

Some of the advantages reported for this simplified process are increased rate of production, reduced maintenance and less downtime.

A. L. BONUTTO

General District Manager, Monsanto Chemical Co.

"With Monsanto's background in plastics, and many years of experience with adhesives, we are especially interested in furthering the 'marriage' of the technology of plywood and plastics. The result will be improved products and greater markets."

E. M. SKYTTA

Vice President & General Manager, Reichhold Chemicals, Inc., Pacific Div.

"With the growing market for phenol products, our new phenol plant in the Pacific northwest. It will enable us to increase the manufacture of plywood adhesives and related chemicals and adhesives for the forest products industry."

RAY T. HANSON

Gen. Mgr., Western Operations, The Borden Chemical Co., Div. of The Borden Co.

"We expect that the continued efforts of our research teams, supported by the assistance and encouragement of the wood products industry, will result in continually improved products, ending in a major technological break-through."

A HOT TOPIC with glue men is the all-exterior glue line. Their consensus is: It would be a great stimulus to plywood sales and plywood acceptance in all markets. One man predicted it will be here within a few years. It would reduce claims on delamination through misuse, and the customer need not worry about his purchase or where or how it could be used. Due to heavy capitalization on cold presses throughout the industry, it would take a number of years to gain industry wide conversion. One manufacturer believes the present concept of two grades is basically unjust, since it places a burden on the unsuspecting, uneducated plywood buyer to determine where and how the product should be used.

Another booster for the all-exterior glue line in plywood is an executive with a major glue firm. He told THE LUMBERMAN, "I formerly lived in Canada where I observed how farmers and builders across the country utilized the British Columbia all-exterior panel for numerous outdoor projects, such as grain bins in the prairies. This general acceptance of plywood for outdoor uses would work just as well in U. S. since the users did not have to be concerned with whether or not the panel would do the job." His views are shared by a majority of the adhesives people interviewed.

A MAJOR STEP FORWARD in the plywood adhesives field is foretold by the announcement that Reichhold Chemicals, Inc., will market their new paper glue line during 1959. The name given this new film-type product is SW-2000-PGL. The initials "PGL" will be used commonly to designate the "paper glue line."

Film glues were first developed several decades ago and at one time were used extensively in making aircraft plywood. Through research, the PGL has been improved to the point now considered adaptable for standard plywood production. While PGL costs more than conventional glues, the additional will be offset by reductions in plywood manufacturing costs.

SW-2000-PGL consists of a cellulose carrier sheet impregnated with phenolic resin. It will be shipped in rolls and cut to size by the user, in the same way plastic overlay rolls are handled. In the hot press, the resin remains on the glue line, where it is needed, for maximum efficiency and with minimum waste. PGL requires slightly longer press cycles at slightly higher temperatures than with conventional glues. Reichhold emphasizes these advantages for PGL: Panels can be pre-laid and pressed whenever convenient; evidence that it will help solve problem of making acceptable exterior-grade plywood from veneer dried in direct-fired dryers at extreme temperatures; elimination of uneven glue spreads and glue-wipes; toleration of higher moisture content in veneer; in gluing of thin veneers, PGL answers the age-old problem of bleed-through and blistering.

RCI also reports continued progress in the manufacture of improved glues for shorter press time and lower cost and in their intensive research program conducted at the Seattle, Wash., plant. A new phenol plant has been built in Tacoma, Wash.

Surface coatings for plywood panels are under development by Reichhold. Of the many resins adaptable to surface coatings, one which shows considerable promise is the polyester resin, which, when used as the coating for concrete forms, exhibits excellent properties in alkali resistance, prevention of grain raise and release from concrete. They expect that in the future, plywood manufacturers will produce coated panels as a standard item.

Another of the firm's major research projects is in the field of gluing direct-fired dried veneer.

PRODUCT PROGRESS by American-Marietta Co.'s Adhesive, Resin & Chemical Division with west coast headquarters in Seattle during the past year has been made in several ways, including the following new glue products:

- K-12 exterior-type glue using Amres 5590 phenolic resin employs a bark extender with resulting 10% less press-time. It was developed through a modification in formulation.
- K-14 glue is an exterior adhesive with Amres 5581 or 5582 phenolic resin and is a lower-cost product, saving some 10% over previous glues to do the same work.
- Amres 260 is a urea formaldehyde resin, a new general purpose adhesive adapted to hardwood panel gluing. It has a low formaldehyde odor factor.
- A-M 670 is a new low-cost blend glue for hot press interior fir plywood.
- A-M 607 is a blend glue for hot press interior plywood and is suitable for wide variations in mill requirements.
- Wheat-flour modified exterior type glues, developed to meet aggravated gluing conditions with mixed species and with straight species (including hardwoods).

One of A-M's biggest steps forward during 1958 was the start of construction on a new $1 million Synthetic Resin Research & Development Center, Harbor Island, Seattle.

Here's how this facility will work for the plywood industry:

1. Technical information: basic research will increase A-M's own knowledge of resins.
2. Adhesives: effort will be stepped up on improved adhesive products.
3. Mechanization: new gluing systems will be investigated, including the glue itself and the machinery to do the job; goal is more efficient, better and faster glue phase of plywood manufacture.

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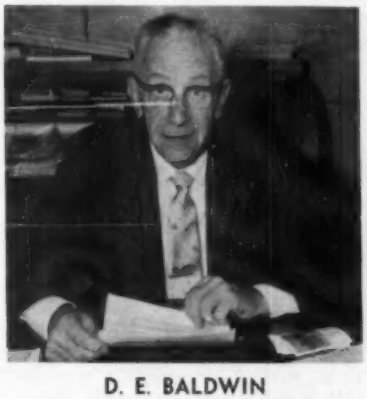
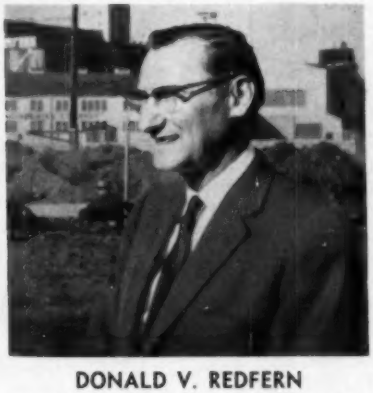


D. E. BALDWIN

General Manager, Chemical Division, Balfour, Guthrie & Co., Ltd. (Tacoma)

"Our organization has been making plywood adhesives in Tacoma for 30 years. Our new resin plant demonstrates our faith in the future of the west coast softwood plywood industry, as well as to the plywood industry throughout the country."



DONALD V. REDFERN

Vice President, American-Marietta Co. and Gen. Mgr. of Adhesive, Resin and Chemical Div.

"We are convinced that the plywood manufacturing process will change radically within the next 10 years. The adhesive requirements will change correspondingly. Investment in this research plant is directed to meet these needs."

4. Products: search for new plywood specialties and bonding with other new materials, e.g., plastics, light metals.
5. Testing: better testing facilities for manufacturers' products.

The new laboratory will augment the present complete pilot plywood plant dry end.

MEANS OF IMPROVING the finish face of fir plywood has been the direction of the Borden Chemical Co.'s research during 1958. A Division of the Borden Co. with plywood adhesive headquarters in Seattle, Wash., they consider a practical and economic solution to the problem essential. With the "A" face gradually bowing out, Borden has given top priority to this search for a product or process that will permit plywood to retain—and even improve on—many of the features of defect-free old-growth heartwood that characterized fir plywood up until recently.

Borden researchers entered into this project with no preconceived notions as to what type of product this face might be. For example, it could be a plastic sheet, a chemical liquid, a thin sheet of pulp or ground-up wood. It likely might be made of a new substance that comes out of the laboratory, since most every known material has at one time or another been tested and found to have certain drawbacks.

Plywood's major advantages, those of lightness and strength, should not be overlooked in the search for a new panel facing, says Borden. The main purpose of the improved face will be to offer the customer what today's logs cannot provide; a perfect painting surface, lack of grain raise, waterproof qualities, uniformity of surface, and beauty. The resin-impregnated cellulose overlays are, in part, an answer, but the cost for overlay panels prohibits widespread manufacturing for a mass market. This search for an improved face, therefore, becomes a job for basic research.

Another vital field of experimentation in which Borden has invested men, materials and money is that of wood waste resins, important not only to plywood, but also to lumber and board segments of the industry. More plywood manufacturers in the future could well become board producers, using the leftover material from their plants as raw material for board. This is another case of basic research in conjunction with the departmental development laboratory on a long-range project of wood waste chemistry. Major objectives are to improve physical properties, such as internal bonds and durability plus lower bonding material and processing costs.

Interesting results, though not yet commercially feasible, have been gained to date in both major projects.

ONE OF MONSANTO CHEMICAL CO.'S new improvements in resins is represented by their phenolic resin for plywood PF535. This versatile resin was developed by scientists at the Seattle, Wash., research laboratory. It is exterior and interior formulations that embody a new polymer synthesis technique resulting in lower press times for the plywood mills, lower costs, greater safety margin and great flexibility of spread range.

Other improvements in resin and glue formulations have been made for edge and end gluing operations and in new improved-performance adhesives for interior plywood production by both hot and cold press operations.

In British Columbia, Canada, where Monsanto maintains a Canadian subsidiary to serve the softwood plywood industry, the company pioneered the new simplified pre-mixed glue program. All plants in the industry are on a 100% exterior glue line. Adhesive suppliers have, by a manufacturing technique at their own manufacturing plants, eliminated the number of additives required in the mixing of glue in the glue loft at the plywood mill.

The pre-mix technique offers manufacturers possible savings of several thousands of dollars per year with this program. The same system does not offer particular advantage to the fir plywood industry in the U.S., where most plants manufacture both exterior and interior plywood. The interior formulations require additives which cannot practically be incorporated in the dry glue and which still must be maintained as an inventory item.

TEN MILLION POUNDS is the annual capacity at Balfour, Guthrie & Co.'s new resin plant at Tacoma, Wash. This plant was brought into production in early 1958 to supply the western softwood and hardwood plywood and board industries with their line of *"Woodweld"* urea and phenolic resin adhesives.

These new resin products join a family of hot and cold-press protein glues which have been manufactured at an existing Balfour, Guthrie plant in Tacoma for the last 30 years.

At Balfour, Guthrie's Tacoma headquarters is centered the Chemical Division's laboratory and research facilities, where new and improved products are developed. A technical service program for the benefit of BG customers is also carried on here.

The promotion in status to a full division within Balfour, Guthrie was awarded the Chemical Div. in 1958.

RAYONIER, INC., silvichemical research and development program, Hoquiam, Wash., has come up with a new product made from the bark of western hemlock. It is a dry sodium salt designated as HT-120 and is a "resin intermediate".

HT-120 is used as a resin component with intermediates that will react more slowly and which will form a flux, allowing the adhesive composition to flow and fill the wood pores.

For preparing a plywood adhesive, HT-120 can be used with phenol-formaldehyde condensate containing a large proportion of free methylol groups. This adhesive performs in all respects equally to the phenolic resin glues. The spread and cure rate are the same and the plywood meets the commercial requirements for exterior-type Douglas fir panels.

Rayonier reports that HT-120 should prove beneficial to the plywood industry in cutting costs and expanding the market for exterior type.

FOAMED ADHESIVES is a recent development by Arthur D. Little, Inc., New York and San Francisco. The foamed adhesive system known as ADL is a series of chemical additives which stabilizes the foam at precise levels long enough for use on conventional glue spreading equipment. Applications of the process to a particular situation are developed by ADL scientists and engineers with the ultimate licensee paying normal research and development costs plus a royalty based on glue-line savings experienced on a product basis.

Presently used by a number of companies, savings have been indicated from 10% to 25% on commercial applications adapted to particular needs. Equipment is being designed for high-capacity, continuous, in-line foamer to operate under high production conditions.

It is reported that the adhesive foaming techniques introduced last year, work well with coldsetting, thermosetting and themoplastic adhesives, with or without solid extenders. Different stabilizers are required for each class. Successful plant runs have been made on exterior-grade plywood and paper veneer boxes. The ADL foamed system appears to offer applications to other laminating processes of forest products.

The advantages of extending adhesives with air are reported to be: lower unit weight thus lower costs; more uniform coverage per unit weight; use of less adhesive; little or no penetration into the base; faster drying; elimination of inert solid extenders; lower viscosity glues can be used. [END]

Patching Panels in Motion

SEMI-AUTOMATION of plywood panel patching is accomplished at Canadian Forest Products, Pacific Veneer and Plywood Div., New Westminster, B. C. Two production lines were built and installed by Durand Machine Works, New Westminster. The installation represents one of the latest applications of the assembly-line principle to plywood production.

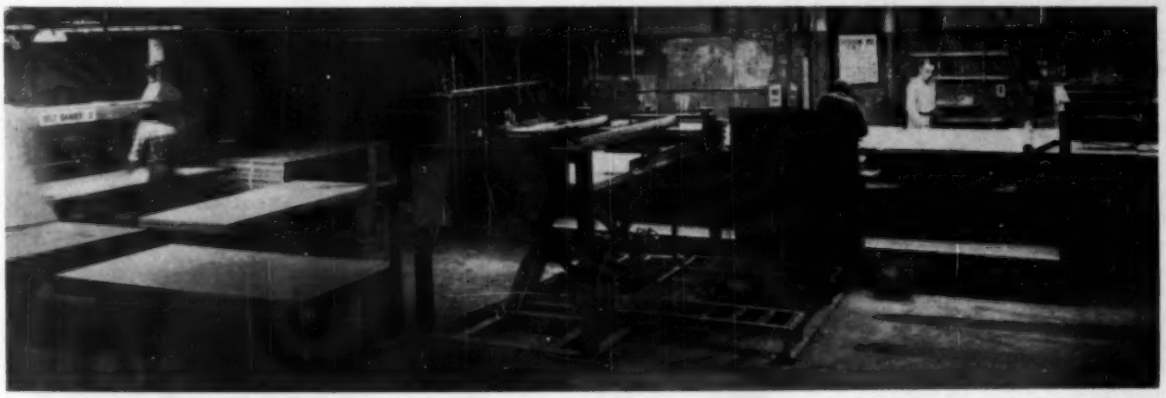
Two graders stationed at the off-end of each of two sanders sort and grade each load. They use Skilsaws to cut out defects requiring shimming. After cutting, the panels are moved on roll-cases to an automatic feeder serving the patching line. Panels are fed singly to a conveyor belt eight feet wide and 24 feet long.

The belt travels 20 feet per minute past the two shim-patchers who are stationed on each side of the conveyor. The belt can be stopped as required by the patchers.

Panels to be rough patched in addition to shims are ejected at the side of the conveyor on powered jump rolls and fed into an end stacker. From there they are transported to the ¾" rough-patch section, patched and sanded.

About 50% to 60% of the daily 700,000 sq. ft. (⅜" basis) production goes over the patching line. Two patching lines are run 16 hours daily, with two men on each line per shift.

Proper organization of material handling as well as efficient processing is required to achieve best results with this type of patching, according to superintendent Jack Zilm. It is necessary to provide for a smooth, steady flow of panels.



SHIM-PATCHED PANELS offbear by jump rolls to stacker at end of line from where they are moved to belt-sander, left. Panels requiring ¾-inch rough-patching are fed to automatic stacker at center from where they are lift-trucked to rough patch section for patching and sanding. Two men cut and hammer shims as required [END]

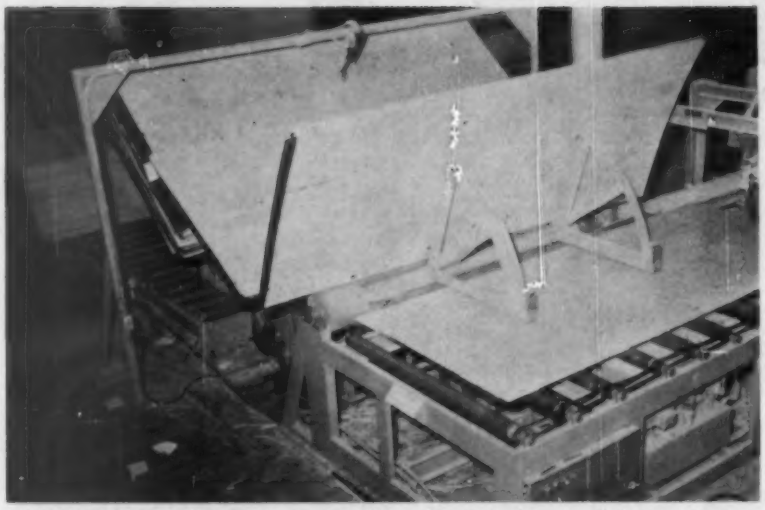
From Bottleneck into Bonanza

ROLL SYSTEM reduces handling to a minimum. Stacked panels emerge from the cutoff saw (far background, center) and are conveyed by gravity and power rolls to one of eight patching stations—4 on each side. End stations in foreground are for both rough and finish patching. Floor layout of rolls and lifts has simplified and speeded truck access. Two hydraulic lifts at each station. Excellent lighting is provided.

ASSEMBLY-LINE PATCHING has become a real cost saving factor for North Pacific Plywood, Inc., Tacoma, Wash. After several months' operation, manager George Jaynes reports a 20% reduction in warehousing and handling costs.

In order to place patching on a mass-production basis it was first necessary to erect a new plant addition, consisting of a well-lighted, fully sprinklered structure.

Patching was previously the one part of the plant where the plywood flow choked-up. Under the new system, automatically stacked panels from the skinner and cut-off saws are roll conveyed directly to patching. There are eight patching stations, each equipped with two hydraulic lifts. There is considerable flexibility in the flow which is highly essential. [END]



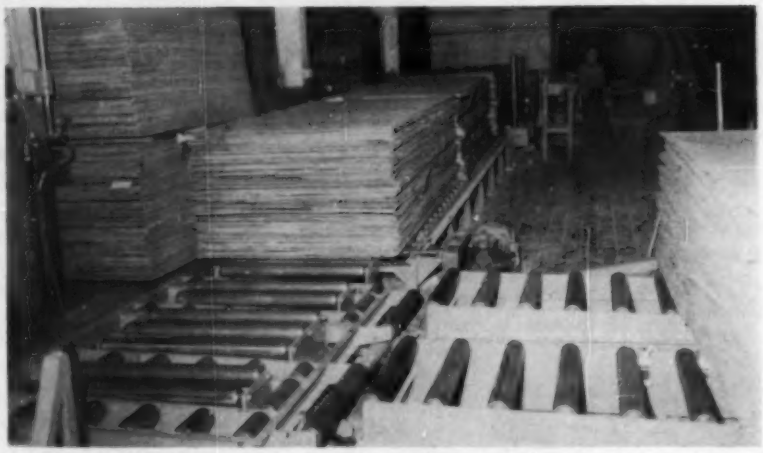
SAWMILL TYPE TILT HOIST raises stack and desired multiple of panels will slide into the slot in the wheel to be lowered to the saw feed rolls. Timing is vital in automatic feeding. When controls are set the Durand multiple panel feeder operates automatically feeding panels into skinner saw continuously, end-to-end.

Multi-Panel Feed System

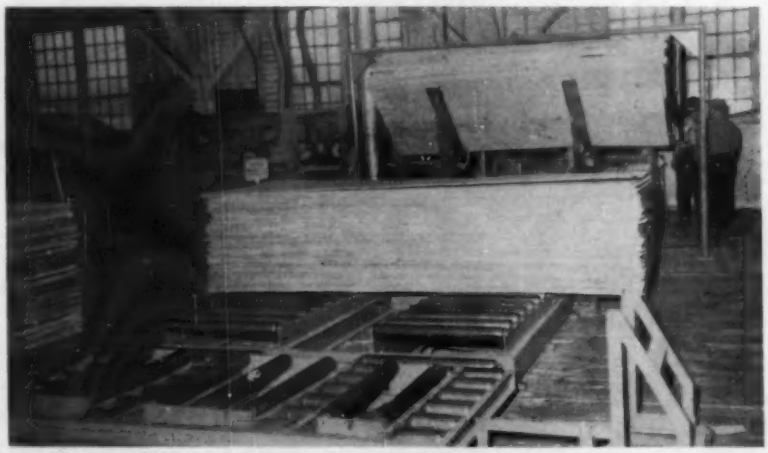
Sizing saws use mill type tilting hoist

HERE WAS THE PROBLEM: Management at the Fraser Mills, B. C., plywood plant of Canadian Western Lumber Co., a division of Crown Zellerbach Canada Ltd., wanted to install automatic panel-feeding equipment in their panel sizing department. However, the conventional single panel feeder was not suitable for their plant, since they had just recently installed new skinner and cutoff saws and transfer tables designed to handle multiple panels, with thicknesses up to 1½". The problem, therefore, was to retain the large capital investment in the new sizing equipment, and to find a new multiple panel feeder that would maintain the high production rate of the sizing saws. Another problem was an efficient conveyor system which would keep sufficient panels on hand to eliminate dead time.

HERE'S THE SOLUTION: An elaborate system of gravity and power rolls controlled by Micro Switches was installed that allowed for a large ready supply of panels to be sized. At least half a dozen stacks can be stored on rolls, ready for the feeder. A sawmill-type tilting hoist was placed ahead of the multiple feeder. The feeder itself consists of two mechanically simple, axle-mounted wheels. Manufacturing and engineering were carried out by Durand Machine Works, New Westminster, B. C. This work was carried out under the direction of Supt. Harold Davy and Asst. Supt. Jack Henderson.



PLENTY OF STORAGE is one of main advantages of conveyor roll system. Stack coming in by gravity hits Micro Switch, left foreground, raising jump rolls. The stack moves onto the rolls in foreground and on out to right of photo, supplying hoist and feeder.

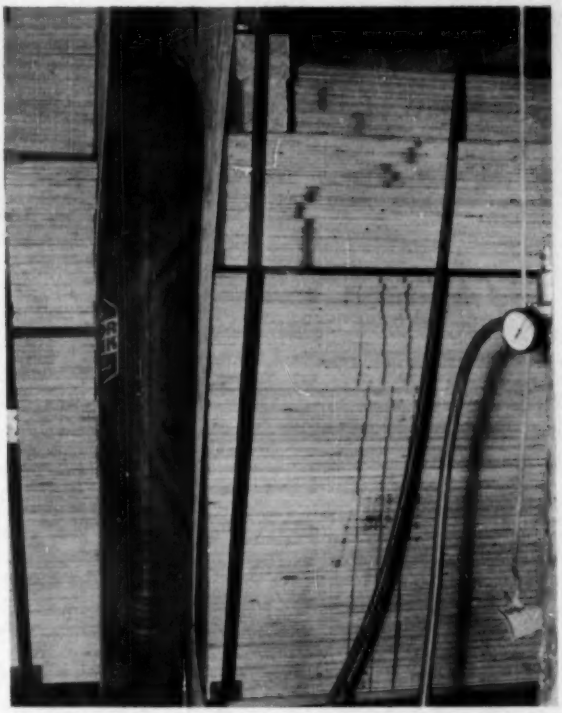


EQUIPMENT FITS in with previous saws already in place. Transfer of panels and feeding into skinner saw, left background. Conveyor travel is controlled by limit switches. [END]

Rubber Dunnage

a move to cut shipping costs

- Reduces loading and unloading time
- Reduces damage in transit
- Reduces car cleanup and dunnage disposal



SHOR-KWIK rubber dunnage used vertically between stacks of plywood braces solidly. Acme 1¼" strapping straps plywood into unit packages. Air hose used for filling dunnage.

UNITED STATES PLYWOOD CORPORATION'S Oregon Division plants at Eugene, Willamina and Roseburg are now shipping approximately one-third of their sanded plywood using Shor-Kwik inflatable rubber dunnage. The system was conceived by the U. S. Army Quartermaster Corps and was further developed by U. S. Rubber Co. It has been used successfully by other industries including paperboard and canned goods.

The bags are manufactured by United States Rubber Co. with sizes running from 4x5 feet to 4x9 feet, however, U. S. Plywood is using mostly 4x6 and 4x7 sizes. The cost of these bags is from $60 to $110 depending on size and they are guaranteed for two years.

The bags are inflated to 7-psi air pressure in warm weather and 9-psi air pressure in cold weather and placed in the doorway. All top bundles in the car are steel strapped and the bundles immediately adjacent to the rubber dunnage are steel strapped completely using 1¼" steel strap. Normally the continuous force executed by the air dunnage mattresses against the load does not allow any sidewise or lateral shift; therefore eliminating the use of side ladders.

DUNNAGE shown from top of load, two bags side by side. Carton on top is for return of dunnage to U. S. Plywood plant in Eugene, Oregon. Number refers to plywood order number.

SAVINGS ATTRIBUTABLE to the use of the rubber dunnage as opposed to the conventional method have been in direct labor savings due to the shorter time required to block a car, less dunnage material being used, less damage in transit and a reduction in unloading costs not only in labor, but in dunnage disposal.

At the Mapleton plant where only sheathing is produced and the amount of blocking is not critical, the bags are inserted in cars requiring load straightening. Inflated with air, the dunnage pushes and squares the load. The bags are then removed and replaced with conventional blocking. [END]

JOINTAPER is fed as conventional taper from stacks placed on both sides of feed end. One man feeds to other offbears to pallet. Feed speed is 130 feet per minute although machine will run at 200 feet per minute—to fast for hand feeding. Stock as narrow as six inches is run through taper.

Jointing, Taping Combined

in single machine allows two men to produce 100 inches per hour using 1/8-inch veneer.

Veneer jointing and taping is a single-machine two-man operation at Multi-Use Panel Corp., Eugene, Ore., where Master Mechanic Ivan Rothrock has developed his JoinTaper, a dual-use machine performing both functions.

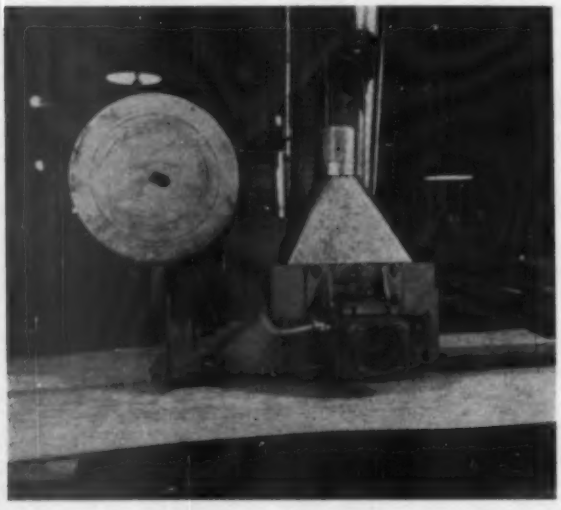
Multi-Use has two of the machines with a third installed at the Valley Veneer layup plant at Junction City, Ore.

Production of 100 inches per hour, per machine, has been made with ⅛-inch veneer, according to Mr. Rothrock.

One feed table is ⅞-inch above the other with one veneer sheet fed ⅜-inch above the other as it enters the machine. Carbide-tip cutters are mounted on aluminum bed plates above and below, allowing for 5/16-inch trim on each sheet. Both heads cut to center line for accurate jointing. Double rubber-faced wheels pull stock through the machine.

Multi-Use runs stock as narrow as six inches, making several passes through the JoinTaper to produce face stock. An automatic trimmer is mounted on the offbear side to skin the taped stock to standard widths.

The machine is being marketed by Tallman Equipment Co., Seattle, Wash.



HEAD of unit has dual cutterheads, one above, other below. Cutters powered by Master 3-hp motors. From cutters, sheets feed under steel wheel and tape, riding on grooved rubber wheel. Pressure gives crowding action as taping is accomplished.

New Plywood Distributing Company Established At West Coast Veneer

Norman Davidson and Jack Davidson have repurchased the Davidson Plywood Company and have obtained controlling interest in Western States Plywood Corporation to form a new plywood distributing organization called Davidson-Western Plywood Company. They will occupy the facilities previously used by Davidson Plywood in Los Angeles, Calif.

The principal stockholders in Davidson-Western Plywood Company will be: Norman Davidson, chairman of board; Jack Davidson, president; Leonard Crofoot, vice president and treasurer; Dick Fantz, vice president, sales; Chandler Hart, secretary, and Dick Bartlett. Many of the former staff members of Davidson Plywood who left when the company was purchased by Atlas Plywood, Inc., in 1952, have returned and will occupy their former positions.

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New Equipment Added

West Coast Veneer Co., Crescent City, Calif., recently added a 12-foot Capital offset slicer, a 12-foot Capital clipper and 12-foot Capital grinder, Axel Lund, president, reports. The new equipment will handle madrone, myrtlewood, three species of oak, chinkapin and possibly alder in a specialty product program now getting underway. Lund Plywood & Manufacturing Co., on the same property, will install a 20-opening, 4x12-foot heavy hot press, Lund reports.

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• The Pacific Coast Co. added to its Moore dryer, bringing total sections to 16 at its Sonoma, Calif., plywood plant. Drying schedules now are completed in five days, versus the seven days formerly required. Both green and dry ends are now on a five-day week.

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Plant Purchase Eyed

Universal Plywood, Inc., has been established in Oregon as the initial move in a plan to purchase the Umpqua Plywood Corp. plant at Roseburg. Among the organizers of the cooperative is G. S. McCarthy, general manager of the plant.

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• Buffelen Woodworking Co., Tacoma, Wash., recently was issued a patent on a new aluminum slat which holds wood louvre pieces in place. The company is now marketing its new "Chevron" louvre door. It features air spaces but it is not possible to see through it.

Plant Converting To All Hot Press

Weyerhaeuser Timber Co. at Springfield, Ore., will replace its present cold press with a Baldwin 20-open hot press, converting the plant to an all-hot press operation. Also slated for early installation is a new Moore 6-line dryer.

Recent additions at the plant include a Kimwood lathe charter, two Sweed automatic dryer feeders, a Globe jointer and a J-H panel feeder.

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New Glue Plant

Pacific Adhesives Co. has started construction of a plant at Hillsboro, Ore., for the manufacture of glues for the plywood industry. The manufacturing plant will be 60x80-feet, will be 55 feet high with a structural steel frame and special steel roof trusses and metal skin. The roof trusses and skin are being manufactured by Armco Drainage and Metal Products, Inc., Portland, Ore. A 100x100-foot warehouse and 40x90-foot office and laboratory are also planned. Production is anticipated early in 1959.

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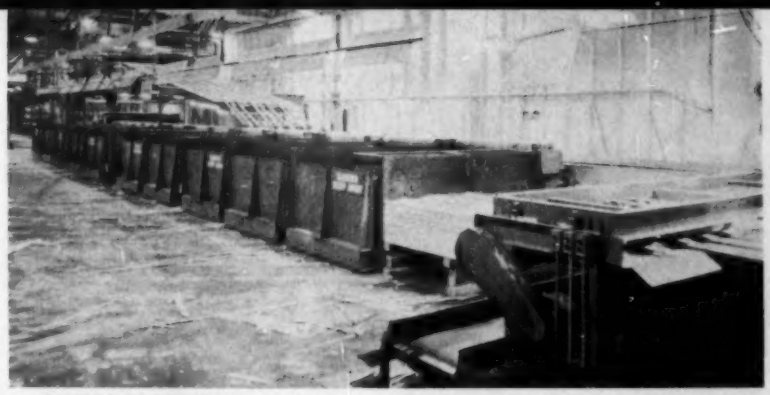
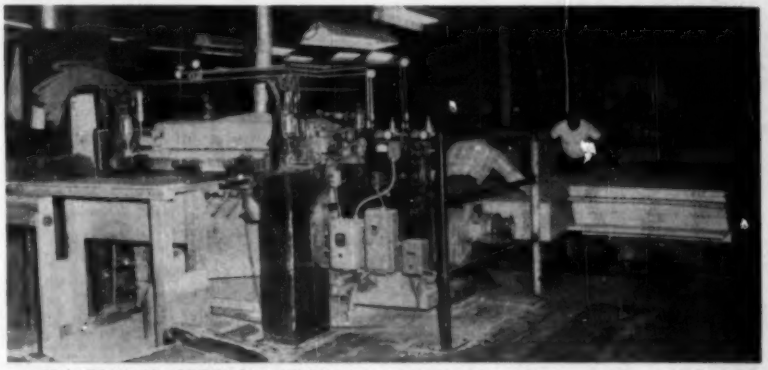
• Mt. Baker Plywood, Inc., Bellingham, Wash., has installed a new Coe short lathe for core stock. The plant has increased its line of specialties and is currently producing a wide variety of hardwoods, including eastern birch, cherry, Philippine mahogany and its major item of western poplar. Fred Phillips became general manager in mid-1958 when former manager Mon Orloff moved to Aberdeen Plywood & Veneers, Inc.



SWEDE SYSTEM for pulling veneer installed by Kimwood Machine Co., Cottage Grove, Ore., reduces damage to veneer and simplifies job of sorter in building uniform loads that handle nicely at the dryer feeder. Pulling rolls are rubber covered and revolve at an exactly determined speed to control velocity of sheet fed into bin. Bins are so constructed that no automatic elevating or leveling device is required. Bin bottom and end boards are part of a four wheeled car which runs on rails set flush with the floor. Air cylinders mounted under the sorting table move the cars out for unloading. Emptying of bins is entirely by fork lift truck.



TIMESAVER SPEEDSANDER added at Cascades Plywood Corp., Lebanon, Ore., has sanding drum under machine with 1¼-inch pressure platens installed on top to allow for patches. All re-patch is run on this machine. The 40 pounds air pressure on feed roll prevents kick-outs. Production is slightly better per man-hour with three men on this machine than one man with belt-sander.

American-Marietta Adding Seattle Plant for Basic Research Activities

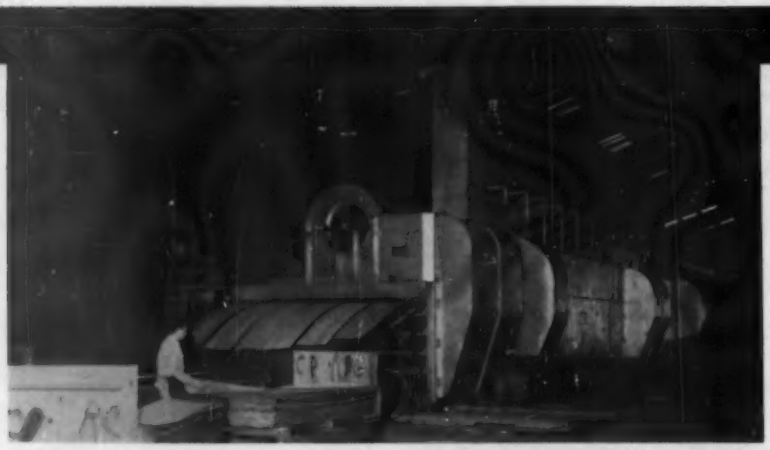
Ground was broken late in 1958 for the American-Marietta's new $1,000,000 Synthetic Resin Research Center on Harbor Island, Seattle, Wash.

Basic research will be conducted by the new laboratories for the entire Adhesive, Resin & Chemical Division, with plants located at Seattle, Portland, New Westminster, B.C. and Edmonton, Alberta; and the Booty Resineers Division, Newark, Ohio. The new resin research center will consist of 21 unit laboratories and six process development areas; also areas and equipment for the evaluation and testing of wood products manufactured throughout the Northwest.

D. V. Redfern, general manager of the division, broke ground for the new laboratory. He said the new research center will be a dream coming true. He briefly outlined the development of the company's activities in the Northwest.

Among the guests present at the ground breaking ceremonies were W. E. Gifford, manager director, and N. S. Perkins, technical director of the Douglas Fir Plywood Association; Clark Heritage, well-known research consultant; Dean Gordon Markworth, college of forestry U. of W.; Prof. B. J. Bryant, college of forestry U. of W.; Dr. Paul C. Cross and Dr. J. L. McCarthy, department of chemistry U. of W.

GROUND BREAKING CEREMONIES for new American-Marietta plant in Seattle, Wash., saw D. V. Redfern, general manager of Adhesive, Resin & Chemical division and A-M vice-president, turn first shovel of dirt. Left to right: P. A. Strack, president, Seattle Area Industrial Council; Redfern; Dr. Charles E. Odegaard, president, U. of W.; Irving S. Smith, president, Seattle Chamber of Commerce; Gordon Clinton, Seattle mayor.



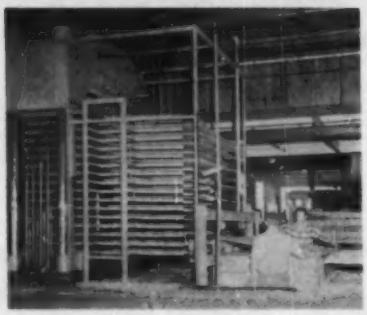
Fortuna Veneer Adds Hot Press, Dryer

Fortuna Veneer Co., Fortuna, Calif., now has put into operation a new 16-opening Williams White hot press, at right, and a 5-line, 14-section Moore dryer with Coe automatic feed, shown above. Dryer capacity is up 35 per cent and now the parent company has eight lathes peeling into six dryers.

Company plants are located at Arcata, Orleans and Willow Creek.

The new production facilities are housed in a recently constructed all-steel Pascoe building, 80x260 feet.

Power for the existing and new equipment now comes from a new Erie City Keystone steam generator.

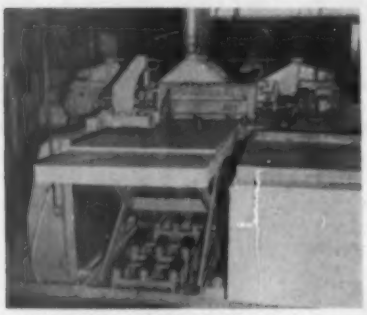


This is a 600-hp unit, natural gas-fired and operating at 250 pounds. The Far Western Equipment and Chemical Co. installation includes a condensate pump to return condensate to boiler.

Coquille Velley Producing Pre-Sealed Plywood

Coquille Velley Lumber Co., Milwaukie, Ore., has installed a process for pre-sealing fir plywood panels produced at the plant. In the firm's process, the sealer is applied uniformly over the surface, cured with infra-red heat to a semi-plastic state and then moved through a buffing machine which moves the excess material from the hard summer growth areas to the more porous spring growth areas to obtain approximately the same uniform density over the entire surface of the panel. The sealer can be applied to one or both sides, depending on the customer's choice.

AUTOMATIC PANEL FEEDER manufactured by Drain Machinery and Supply Co., Drain, Ore., is recent addition to the plywood plant of Timber Products Division of Cyprus Mines, Inc., Medford, Ore. Unit makes sanding one-man operation. Extra stack is placed on power rolls at left and is run onto stacker by sanderman when required. Sander is Yates-American 268.



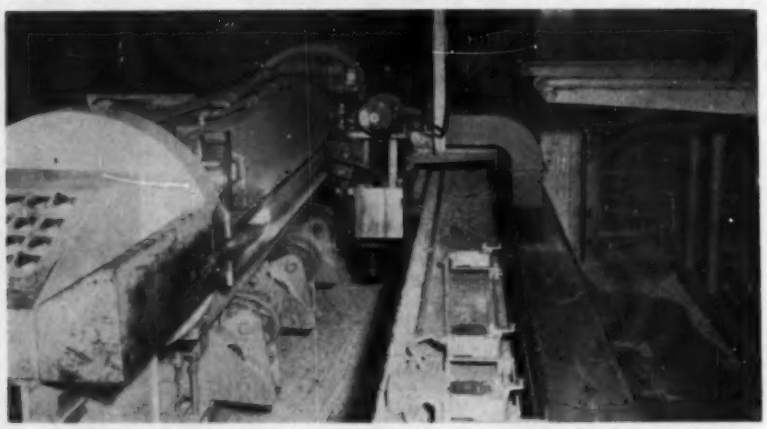
DURAND SANDER FEEDER is one of two recently installed at Grants Pass Plywood Co., Grants Pass, Ore., by Conway & Fields, of Portland, Ore. Unit feeds Yates-American sander.

Balfour, Guthrie Sets Up Chemical Division

A chemical division has been established by Balfour, Guthrie & Co., Ltd., in Tacoma, Wash., which will include the firm's plywood glue business presently serving the west coast.

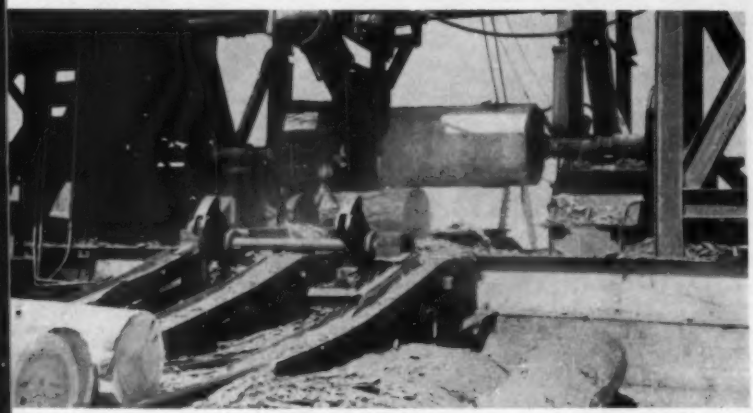
Balfour, Guthrie has manufactured and sold plywood glues for over 25 years and earlier this year completed at Tacoma a $400,000 plant for the manufacture of resins for the plywood and forest products industry.

SWEED VENEER FEEDER has been added to dryer at Georgia-Pacific Plywood plant, Toledo, Ore. Unit is one of several recently installed in the industry by Jeddeloh Bros., Gold Hill, Ore. The unit provides maximum dryer utilization.



GLOBE JOINTER at Western Veneer & Plywood Co., Lebanon, Ore., is rotary, travelling head unit. Veneer is fed to jointer which shakes, clamps, turns load to travelling head. Unit then turns 180 degrees, shakes, turns for jointing other edge. It is a one-man operation, has tilting table which automatically offbears load to skate wheel edge-gluer feed table. Total crew of three men produce 3,000 linear feet of glued veneer daily, in jointing-edge gluing operation.

BETTER WAYS to do the job

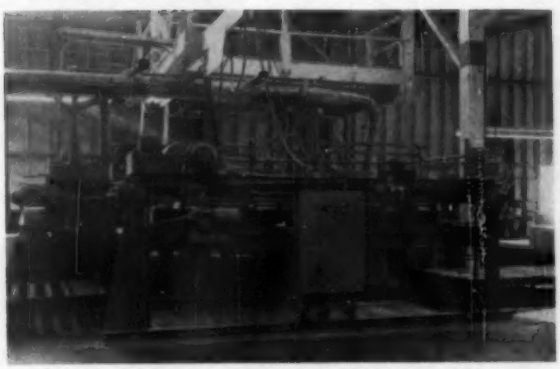


REVERSAL OF BARKER HEAD, from bottom to overhead action, resulted in 45% increase in peeler production on this Albany barker at Interstate Container Corp., Red Bluff, Calif. Photo shows barker in new position. Plant now barks peelers 6 to 7 shifts out of 10. Formerly it barked an average of 11 shifts, including Saturday. Average number of peelers handled now is 385.

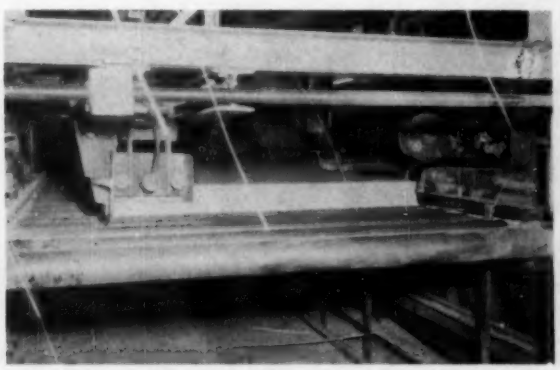
VENEER MOVES EFFICIENTLY from storage to the glue spreaders when pushed with these motorized handle tractors at Canadian Western Lumber Co., Fraser Mills, B. C. A pushing plant with flat spike out front permits pushing. Controls are hydraulic. Power plant is by Fairbanks-Morse.

SHORT-COUPLED DRYER FEEDER at Hardel Mutual Plywood Co., plant in Olympia, Wash., has reduced breakage, especially on larger sheets which are now more easily handled. One feeder man keeps the feed operating steadily. Quick adjustment on a pulley converts the feeder to change from 8- to 6-foot panels. Installation was by Coe Manufacturing Co.

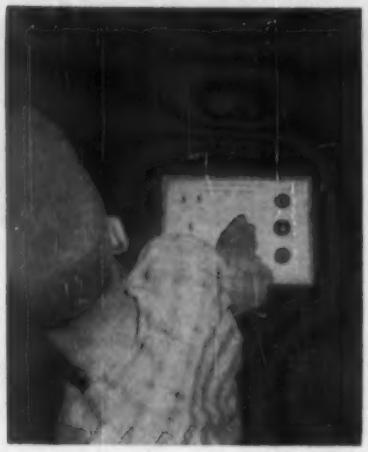
VENEER CLOGGING IS STOPPED at off-bear end of green sorting chain at Evans Products Co., Roseburg, Ore., with counter-weighted table which drops a large quantity of veneer at a time onto the chain conveying refuse to the head end and burner conveyor.

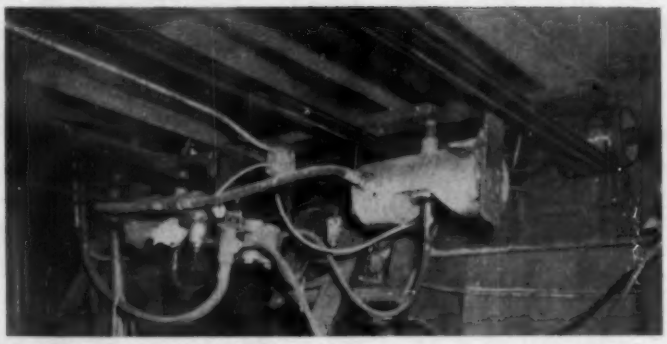


AUTOMATIC PANEL STACKING is accomplished at Simpson Logging Co., Lyons, Ore., with stops remotely controlled for rapid shifts of panel sizes between runs. At left, stacker is mounted on offbear side of Greenlee cutoff saw. Unit is remotely controlled by cutoff saw operator.



Screw jacks operator elevator through right angle drive. At right, stops are moveable through screws remotely controlled. Operator can rapidly set stops for next panel size run by triggering motor. Panels come from cutoff on lugged chains with rubber hold-down tires insuring feed.





TIPPLE-TRAY CONTROL SYSTEM at Cyprus Mines, Inc., Medford, Ore., enables lath operator to control entire tipple and tray system. At the control station, shown at left, operator pre-selects next tray to be filled by dial, center, presses action button to move tipple to next tray when ready. As the veneer ribbon reaches the end of the tray it hits a Micro-Switch which actuates the air breaker and speeds up the drive to clear the tipple. The air breaker on the automatic tipple, built by Drain Machinery & Supply, breaks veneer with blasts of compressed air when triggered from far end of tray. The control system is by Republic Electric & Development Co.

VENEER CONVEYOR SYSTEM at Canadian Western Lumber Co., Frazer Mills, B. C., has been improved to reduce hang-ups and end-splitting of veneer and other breakage from sharp stops. A new moving belt has been added, mounted one-half inch in front of the backstop for veneer ejected from the dryer. The vertical belt acts as a cushion. Drive rolls for the belt are geared off the drives for the horizontal table belts so that it moves at the same speed.

HIGHER CHIP GRADE is goal of this installation at Evans Products, Ltd., Vancouver, B. C. The operator stands at the end of the green chain where refuse veneer feeds into the belt ahead of the chipper. Front and back movement of the feed belt are controlled by foot pedals with the object to make veneer overlap, as shown in the picture, rather than letting pieces enter the chipper separately. The result is that no large pieces skip unchipped through the chipper. The operator can also recover any good piece that is usable for plywood.

IMPROVED CHUCK CHANGING. The picture series above shows how Evans Products, Ltd., Vancouver, B. C., changes to smaller lathe chuck without completely unchucking. At left, large chuck in place. Center, 11-inch chuck pulls off the spindle merely by a slight twist. The inner, smaller 5½-inch chuck which was in the log all the time, remains. Right, peeler core is suspended at far right end by 5½-inch chuck. Lathe man rechucks block with same 5½-inch chuck which fits into same holes. System saves handling time, eliminates waste veneer round-up.

Directory of PLYWOOD and VENEER PRODUCTS

PLYWOOD PLANTS

ALBERTA

WESTERN PLYWOOD (Alberta) LTD.
Edmonton, Alberta
Home Office: 900 East Kent Ave., Vancouver, B.C.
ANNUAL CAPACITY: (¼-inch basis) 30,000,000 square feet poplar.
EQUIPMENT: 1 lathe, 1 dryer, 1 press.
PERSONNEL: Frank Hahn, area mgr.; Archie Sudbury, plant supt.

BRITISH COLUMBIA

BRITISH COLUMBIA FOREST PRODUCTS LTD., Victoria Plywood Div.
Plant Address: 371 Gorge Road, Victoria, B. C.
Telephone: Evergreen 5-3331
Home Address: 995 West 6th Ave., Vancouver 9, B. C.
ANNUAL CAPACITY: (⅜-inch, 3 ply) 100,000,000 sq. ft. 1958 estimated production (⅜" basis) 87,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 50,000 sq. ft. brushed panels; 1,000,000 sq. ft. Texture One-Eleven; 570,000 sq. ft. scarfed panels.
EQUIPMENT: 3 dryers; 2 hot presses; Maximum press size 60x102 inches.
PERSONNEL: C. D. Dickey, Jr., pres.; T. D. R. Humphreys, mgr.; W. H. Pumfrey, sls. mgr.; C. W. Potter, plant supt.
SALES AGENTS: MacMillan & Bloedel Ltd., 1199 West Pender St., Vancouver 1, B. C.

CANADIAN COLLIERIES RESOURCES LIMITED
Timber Plywood Division
P.O. Box 700, New Westminster, B. C.
Telephone: Lakeview 1-7767.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 52,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 50,000,000 sq. ft. Species: 48,000,000 sq. ft. Douglas fir.
EQUIPMENT: 1 lathe, 2 dryers, 1 hot press.
PERSONNEL: N. R. Whittall, pres.; W. G. Flavelle, gen. sls. mgr.; H. A. Lester, plant mgr.; J. P. Shick, plant supt.

CANADIAN FOREST PRODUCTS LTD., Pacific Veneer & Plywood Div.
Box 140, New Westminster, B. C.
Telephone: LA 1-9656.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 140,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 4 lathes; 7 dryers; 5 hot presses; Maximum press size 60x120 in.
PERSONNEL: J. G. Prentice, pres. & gen. mgr.; W. E. Burns, sls. mgr.; D. M. Zilm, plant supt.

CROWN ZELLERBACH CANADA LIMITED
Canadian Western Lumber Division
Fraser Mills, B. C.
Executive offices: Burrard Building, Vancouver, B.C.
Telephone: LA 1-1941; MU 4-9464.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 25,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 500,000 sq. ft. plastic or paper overlays.
EQUIPMENT: 2 lathes, 2 hot presses. Maximum press size, 60x120 in.
PERSONNEL: P. T. Sinclair, pres. Crown Zellerbach Canada; D. R. Schmidt, gen. mgr., Canada Western Lumber Division; H. G. Greenall, sls. mgr.; A. C. Ewart, plant mgr.; H. Davy, plant supt.

EVANS PRODUCTS COMPANY LTD.
Foot of Main St., South, Vancouver, B. C.
Telephone: Fraser 1131.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 36,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 36,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer, 1 hot press.
PERSONNEL: E. S. Evans, Jr., pres.; C. J. Short, vice pres. & gen. mgr. Western Division; W. J. Ritchie, sls. mgr.; Ralph Cole, plant supt.; Gordon McKay, plant mgr.
SALES AGENTS: Weldwood Plywood, Ltd., head office, Montreal, Canada.

MacMILLAN & BLOEDEL, LTD.
Alberni Plywood Division
P.O. Box 156, Port Alberni, B. C.
Phone: 807.
Home office: 1199 West Pender St., Vancouver, B. C.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 135,000,000 sq. ft. Douglas fir.
SPECIAL PRODUCTS: 200,000 sq. ft. plastic or paper overlays. 1,000,000 sq. ft. scarfed panels; specialty panels.
EQUIPMENT: 2 lathes, 5 dryers, 3 hot presses. Maximum press size: 5x10 ft.
PERSONNEL: R. M. Shaw, pres.; I. S. Brand, gen. mgr.; J. F. Ravenhill, sls. mgr.; C. T. Robertson, plant mgr.; W. M. Drew, plant supt.
SALES AGENTS: MacMillan & Bloedel Sls. Ltd., Vancouver, B. C.; Edmonton and Calgary, Alberta; Winnipeg, Manitoba; Islington, London, Windsor, Ontario; Montreal, Quebec; Ottawa, Quebec.

MacMILLAN & BLOEDEL, Ltd.
Vancouver Plywood Division
Two plants: Foot of Cromwell St., Postal Station A, P.O. Box 340, Vancouver, B. C.
Home office: 1199 West Pender St., Vancouver, B. C.
Phone: Hemlock 1-1481.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 215,000,000 sq. ft. Douglas fir.
SPECIAL PRODUCTS: Plastic or paper overlays; scarfed panels; Mono-door; pressed-wood fuel; specialty panels.
EQUIPMENT: 4 lathes, 11 dryers, 1 cold press, 6 hot presses.
PERSONNEL: R. M. Shaw, pres.; H. D. Dagg, gen. mgr.; J. F. Ravenhill, sls. mgr.; A. McAloney, plant mgr.; J. E. Young, plant supt.

MURRAY, J. R., LTD.
8850 Ash St., Vancouver 15, B. C.
Phone: Fraser 9121.
Home office: 900 E. Kent, Vancouver, B. C.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 66,000,000 sq. ft. Douglas fir.
EQUIPMENT: 2 lathes, 2 dryers, 3 hot presses. Maximum press size: 4x8 ft.
PERSONNEL: John Bene, pres. & gen. mgr.; Geoff Tullidge, sls. mgr.; Jim McCarthy, prod. mgr.; John Douglas, plant supt.; Jim Douglas, area mgr.
SALES AGENTS: Vancouver, Edmonton, Calgary, Regina, Winnipeg, Ft. William — own warehouses; eastern Canada through distributors.

RICHMOND PLYWOOD CORP., LTD.
1390 Vulcan Way, Richmond, B. C.
Telephone: CR 8-5168.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 50,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 48x96 in.
PERSONNEL: John Chappell, pres.; E. W. Maw, gen. mgr.; Leonard Baxter, plant supt.
SALES AGENTS: Trans-American Plywood Sales Ltd., 1159 West Broadway, Vancouver 9, B. C.

S & K LIMITED, Plywood Division
P.O. Box 390, Kelowna, B. C.
Telephone: 4500.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 40,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 29,000,000 sq. ft. Species: 16,000,000 sq. ft. Douglas fir; 4,000,000 sq. ft. ponderosa; 20,000,000 sq. ft. spruce.
EQUIPMENT: 2 lathes, 1 dryer, 1 hot press. Maximum press size 48x96 in.
PERSONNEL: Wm. P. Crooks, plant mgr.; L. Preston and N. Murray, general foremen.
SALES AGENTS: S. M. Simpson, Ltd., (Okanagan Sls.); McMillan & Bloedel Ltd. (Sls. agents).

SOOKE LAKE LUMBER LTD.
Ft. Helliwell Road, Victoria, B. C.
P.O. Box 1206, Victoria, B. C.
Telephone: EV 2-8241.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 47,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 34,000,000 sq. ft. Species: 34,000,000 sq. ft. Douglas fir; mahogany.
EQUIPMENT: 1 lathe, 2 dryers, 2 hot presses. Maximum press size 50x100 in.
PERSONNEL: N. D. Cameron, pres. & gen. mgr.; A. Hendry, sls. & plant mgr.; R. Reay, plant supt.
SALES AGENTS: Canadian sales agent: McMillan & Bloedel, Ltd. Export: Seaboard Lumber Sales Co., Ltd.

WESTERN PLYWOOD CO., LTD. (Cariboo)
Box 2000, Quesnel, B. C.
Phone: 62.
Home office: 900 E. Kent, Vancouver 15, B. C.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 40,000,000 sq. ft. Douglas fir.
EQUIPMENT: 2 lathes, 2 dryers, 1 hot press. Maximum press size: 5x8 ft.
PERSONNEL: John Bene, pres. & gen. mgr.; Geoff Tullidge, sls. mgr.; Jim McCarthy, prod. mgr.; Don McColl, area mgr.
SALES AGENTS: Vancouver, Edmonton, Calgary, Regina, Winnipeg, Ft. William — own warehouses. Eastern Canada through distributors.

WESTERN PLYWOOD, LTD.
900 E. Kent, Vancouver 15, B. C.
Phone: Fraser 1111.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 15,000,000 sq. ft. Douglas fir; 30,000,000 sq. ft. cottonwood.
SPECIAL PRODUCTS: 450,000 sq. ft. plastic or paper overlays; 450,000 sq. ft. hardwood faced panels.
EQUIPMENT: 2 lathes, 1 slicer, 2 dryers, 2 hot presses. Maximum press size, 4x8 ft.
PERSONNEL: John Bene, pres. & gen. mgr.; Geoff Tullidge, sls. mgr.; Jim McCarthy, prod. mgr.; Albert Elias, plant supt.; Ralph Douglas, gen. supt.; Jim Douglas, area mgr.

CALIFORNIA

ARCATA PLYWOOD CORP.
P.O. Box 427, Arcata, Calif.
Telephone: Vandyke 2-0335; Teletype: Arcata 94.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 1 hot press. Maximum press size 48x120 in.
PERSONNEL: A. Rochlin, pres.; Larry Rochlin, gen. mgr.; E. W. Strauser, sls. mgr.; J. S. Berg, plant supt.

BIRCHWOOD, INC.
3620 Fruitland, Maywood, Calif.
ANNUAL CAPACITY: 200,000,000 sq. ft. (¼-inch basis).
PRODUCTS: Furniture, stock, architectural, doors, formed.
PERSONNEL: Dale Kellogg, pres.; Alan McRoberts, plant mgr.

CAROLINA CALIFORNIA PLYWOOD
Plant address: P.O. Box 98, Salyer, Calif.
Home address: P.O. Box 949, Medford, Ore.

(Continued on page 130)

LEADING PLYWOOD DISTRIBUTORS
of the UNITED STATES

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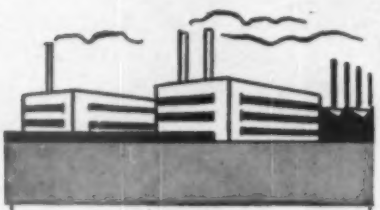

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INCORPORATED
105 - 15 180th St., Jamaica, N. Y.
1089 Hudson St., Union, N. J.
400 Boulevard, New Haven, Conn.
133 Sutton St., Brooklyn, N. Y.

ANNUAL CAPACITY: (⅜-inch, 3-ply) 36,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 30,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes, 1 dryer, 1 cold press. Maximum press size 48x96 in.
PERSONNEL B. D. Mitchell, pres.; John LaFleur, plant supt.
SALES AGENTS: Carolina Pacific Sales, Wilmington, N. C.; Corbett Plywood Corp., Wilmington, N. C.

CLOVERDALE PLYWOOD CO.

P.O. Box 95, Cloverdale, Calif.
Telephone: TW 4-3387. Teletype: 75
ANNUAL CAPACITY: (⅜-inch, 3-ply) 48,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 30,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes, 1 dryer, 1 cold press, 1 hot press. Maximum press size 60x120 in.
PERSONNEL: R. O. Carlson, pres. & gen. mgr.; G. A. Gustafson, plant mgr.; Harry Unger, plant supt.
SALES AGENTS: Pacific Wood Products, Statler Center, 900 Wilshire Blvd., Los Angeles, Calif.

DURABLE FIR LUMBER & PLYWOOD CO.

P.O. Box 114, Calpella, Calif.
Telephone: Homestead 2-2981.
Teletype: UK 1-4061.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 2 dryers, 1 hot press. Maximum press size 48x96 in.
PERSONNEL: H. "Hank" Wolny, plant supt.; Sam K. Arness, gen. mgr.; Harold Ranta, plant mgr.
SALES AGENTS: Durable Plywood Sales Co., Menlo Park, Calif.

DURABLE PLYWOOD CO.

451 South G St., Arcata, Calif.
Telephone: Van Dyke 2-0381.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 60,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 300,000 sq. ft. brushed panels; 1,000,000 sq. ft. Texture One-Eleven; 60,000 sq. ft. 2.4.1 panels; 750,000 sq. ft. Tongue & Groove.
EQUIPMENT: 2 lathes, 2 dryers, 2 hot presses. Maximum press size 48x96 in.
PERSONNEL: Henry Anderson, pres.; Charles H. Thompson, gen. mgr.; Rolf Stoleson, sls mgr.; Jack McCracken, plant supt.

FORTUNA VENEER CO.

Plant address: Fortuna, Calif.
Home address: P.O. Box 427, Arcata, Calif.
Telephone: Vandyke 2-0335. Teletype: Arcata 94.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 80,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 2 hot presses. Maximum press size 48x96 in.
PERSONNEL: Larry Rochlin, gen. mgr.; Walter Swartz, plant mgr.; E. W. Strauser, sls. mgr.

GEORGIA PACIFIC CORP.

Samoa, Calif. (To be completed Spring 1959.)
Telephone: Hillside 2-3715.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 72,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 slicer, 2 cold presses. Maximum press size 48x96 in.
PERSONNEL: R. B. Pamplin, pres.; R. E. Flowerree, Jr., vice pres. & gen. mgr.; W. H. Hunt, vice pres. of sls.; Volmer Vance, plant mgr.

HAMPTON PLYWOOD CO.

Plant address: P.O. Box 572, Scotia, Calif.
Telephone: Pepperwood 2101.
Home address: 407 Terminal Sales Building, Portland 5, Ore.
ANNUAL CAPACITY: (⅜-inch, 3-ply) 48,000,000 sq. ft. 1958 estimated production (⅜-inch basis) 48,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 48x96 in.

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★ Softwood and Hardwood Plywood
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★ Flush Hardwood Doors
★ Panelyte and Conolite Plastic
★ Borden and Hybond Adhesives
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★ Philippine Moulding and Lumber
★ Plywelsh Prefinished Panels
★ Famowood ★ Putty Stiks

"One Piece or a Carload"

DAVIS PLYWOOD CORPORATION
Cleveland 11, Ohio

Branches in Columbus & Toledo, Ohio

PERSONNEL: L. M. Hampton, pres.; Joe Price, general & plant mgr.; Donald G. Jones, sls. mgr.

SALES AGENTS: Hampton Lumber Sales Co., 407 Terminal Sales Building, Portland, Ore. Telephone CApitol 3-6271, TWX PD 185.

INDUSTRIAL PLYWOOD CORP.

Plant address: Willits, Calif.
Home address: P.O. Box 569, San Rafael, Calif.
Telephone: Glenwood 4-2310. Teletype: San Rafael 64.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 28,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 23,500,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 200,000 sq. ft. 2.4.1. panels; 1,000,000 sq. ft. cut up items.

EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: C. J. Fairhurst, pres.; Jack Fairhurst, gen. mgr.; E. H. Bacon, sls. mgr.; R. L. Fargusson, plant mgr.; Claymon Freeman, plant supt.; L. I. Clark, operational mgr.

SALES AGENTS: Fairhurst Plywood Sales Co., P.O. Box 569, San Rafael, Calif.

INTERNATIONAL PAPER CO., Long-Bell Division

Plant address: Weed, Calif.
Home Address: P.O. Box 1079, Longview, Wash.
Telephone: Hamilton 3-2110. Teletype: 375.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 30,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 26,000,000 sq. ft. Species: 17,000,000 sq. ft. Douglas fir; 9,000,000 sq. ft. white and ponderosa pine.

SPECIAL PRODUCTS: 822,000 sq. ft. Idaho knotty pine.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: J. D. Leland, vice pres.; H. G. Kelsey, gen. mgr. western operations; E. H. Houston, gen. sls. mgr.; J. Mantle, br. mgr.; F. L. Foval, asst. gen. sls. mgr.; J. Dohrn, plant supt.; F. N. McCullah, plywood sls.

SALES AGENTS: International Paper Co., Long-Bell Division—sales offices in all major cities.

LUND PLYWOOD & MANUFACTURING CO.

New No. 101 Highway, Box 146, Crescent City, Calif.
Telephone: 6814.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 36,000,000 sq. ft. Douglas fir.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press.

PERSONNEL: Axel I. Lund, pres. & sls. mgr.; Gordon E. Larsen, ass't. sls. mgr.; Fred Helland, plant supt.; Francis Wheeler, 2nd shift supt.; Donald Hemmingsen, master mechanic.

MUTUAL PLYWOOD CORP.

P.O. Box 18, Eureka, Calif.
Telephone: h...side 2-6487.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 90,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 90,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 7,000,000 sq. ft. striated panels.

EQUIPMENT: 2 lathes, 1 slicer, 3 dryers, 3 hot presses. Maximum press size 60x120 in.

PERSONNEL: Earl W. Larson, pres.; Howard B. Garrison, gen. mgr.; George Johnson, sls. mgr.; George Christ, plant supt.

SALES AGENTS: United States Plywood Corp.

NORTHERN CALIFORNIA PLYWOOD, INC.

P.O. Box 337, Dead Lake-Crescent City, Calif.
Telephone: 8501. Teletype: 433.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 65,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 500,000 sq. ft. brushed panels; 500,000 sq. ft. 2.4.1. panels; 200,000 sq. ft. sliced veneer panels.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Wayne McClaflin, pres.; A. B. Burdick, gen. & sls. mgr.; Jack Harmon, plant supt.

SALES AGENTS: North-Robbins Plywood, Inc., 400 Boren Ave., No., Seattle, Wash.

LEADING PLYWOOD DISTRIBUTORS
of the UNITED STATES

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Established 1918

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TWX: NY 4-3870

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Shop Grades
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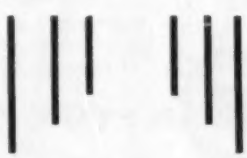

If you do not get our price, we both lose!

OROPLY CORP.

Plant address: Kusel Road, Oroville, Calif. Railroad siding—Villa Verona, Calif.
Home address: P.O. Box 111, Oroville, Calif.
Telephone: Lenox 3-7440. Teletype: 283.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 40,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 18,000,000 sq. ft. Species: 35,000,000 sq. ft. Douglas fir; 5,000,000 sq. ft. white fir.

EQUIPMENT: 1 lathe, 1 dryer, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: L. D. Ohlson, pres.; E. W. Hays, gen. & plant mgr.; Fred Hamann, plant supt.

SALES AGENTS: Dant & Warnock, Inc., 855 Santa Cruz Ave., Menlo Park, Calif.

THE PACIFIC COAST CO.

East MacArthur & 8th St. E., (P.O. Box 8), Sonoma, Calif.
Telephone: Webster 8-5564.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 39,600,000 sq. ft. 1958 estimated production (3/8-inch basis) 36,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Brushed panels, Texture One-Eleven, 2.4.1 panels, cut-up items.

EQUIPMENT: 1 dryer; 1 cold press; 1 hot press; maximum press size 48x96".

PERSONNEL: Hugh J. Jacks, pres.; A. W. Agnew, gen. mgr. & vice pres.; George W. Karlson, prod. mgr.; George A. Cramer, plant supt.

SALES AGENTS: United States Plywood Corp.

PLYWOOD CORPORATION OF AMERICA

8910 Amelia St., Oakland, Calif.
Telephone: Lockhaven 9-0261

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 15,000,000 sq. ft. Species: Douglas Fir.

SPECIAL PRODUCTS: 2,000,000 sq. ft. Texture One-Eleven; 5,000,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 1 dryer; 1 cold press; maximum press size 48x90 in.

PERSONNEL: Wally Bushberg, pres.; Norman Bushberg, vice pres. & gen. mgr.; Jack Harmon, plant supt.; L. F. Lane, office mgr.; Gloria Bushberg, sec.-treas.

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PLYWOOD MFG. CO. OF CALIF., INC.

2201 Dominquez, Torrance, Calif.
Telephone: Fairfax 8-7986 Teletype: TNC 5031

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 48,000,000 sq. ft. Species: 24,000,000 sq. ft. Douglas fir; 24,000,000 sq. ft. birch.

SPECIAL PRODUCTS: 24,000,000 sq. ft. hardwood faced panels.

EQUIPMENT: 1 cold press; 1 hot press; Maximum press size 48x96 in.

PERSONNEL: A. Rochlin, pres. & gen. mgr.; J. Rathaus, sls. mgr.; B. Feigan, plant mgr.

RODDISCRAFT, INC.

P.O. Box 248, Arcata, Calif.
Telephone: VA 2-3631.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. 1958 estimated production (3/8" basis) 49,401,000 sq. ft. Species: 47,773,000 sq. ft. Douglas fir; 700,000 sq. ft. Philippine mahogany; 1,450,000 sq. ft. Birch; 42,000 sq. ft. Oak; 56,000 sq. ft. Walnut; 10,000,000 sq. ft. other species.

SPECIAL PRODUCTS: 1,628,000 sq. ft. hardwood faced panels; 204,000 sq. ft. brushed panels; 495,000 sq. ft. striated panels; 564,000 sq. ft. Texture One-Eleven; 724,000 sq. ft. cut up items; 216,000 sq. ft. hardwood on Timblend core.

EQUIPMENT: 2 lathes; 3 cold presses; 2 hot presses; maximum press size 60x120 in.

PERSONNEL: R. T. Beggs, pres.; Kirk R. Cooper, vice pres. & gen. mgr.; R. L. Rinde, sales mgr.; D. O. Dahlen, plant supt.

SIMPSON REDWOOD CO.

Plant Address: Eureka, Calif.
Home Address: Arcata, Calif.
Telephone: Hillside 3-4591. Teletype: EK 64.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. Species: 55,200,000 sq. ft. Douglas Fir; 4,800,000 sq. ft. Redwood.

SPECIAL PRODUCTS: Fir and Redwood brushed panels, Texture One-Eleven, scarfed panels, 2.4.1 panels, sliced redwood veneer panels.

EQUIPMENT: 1 lathe, 1 slicer, 3 dryers, 2 hot presses; maximum press size 60x120".

PERSONNEL: Gordon Manary, vice pres.; J. M. Elliott, plant mgr.; Ivan Vrooman, plant supt.

STANDARD VENEER AND TIMBER CO.

Plant Address: North Crest Drive, Crescent City, Calif.
Telephone: 9331.
Home Address: P.O. Box 578, Crescent City, Calif.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 36,000,000 sq. ft. 1958 estimated production (3/8" basis) 34,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 600,000 sq. ft. 2.4.1. panels; 250,000 sq. ft. cut up items.

EQUIPMENT: 1 lathe, 1 dryer, 1 cold press; maximum press size 48x96 in.

PERSONNEL: E. N. Baisler, pres.; Hollis J. Nunneley, gen. & sales mgr.; Arnie Anderson, plant supt.

SUNSET PLYWOOD CO.

6067 District Blvd., Los Angeles, Calif.
Telephone: LU 8-3118.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 50,000,000 sq. ft. 1958 estimated production (3/8" basis) 23,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 500,000 sq. ft. hardwood faced panels; 750,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 1 cold press; 1 hot press; maximum press size 48x96 in.

PERSONNEL: F. L. Freeman, pres.; Frank Lybeck, plant supt.

TRI-STATE PLYWOOD CO.

630 Martin Ave., Santa Clara, Calif.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq ft. Species: Douglas fir.

EQUIPMENT: 1 dryer; 1 cold press.

PERSONNEL: Victor Olson, pres.; S. R. Black, vice pres. & gen. mgr.; Gladys M. Fordney, sales mgr.; Jack Blankenship, plant supt.

TYRE PLYWOOD MFG. CO.

328 S. Date Ave., Alhambra, Calif.

ANNUAL CAPACITY: 1,000,000 sq. ft.

PRODUCTS: Furniture, stock, architectural.

PERSONNEL: Morris Tyre, pres.; Wold Gordon, gen. mgr.

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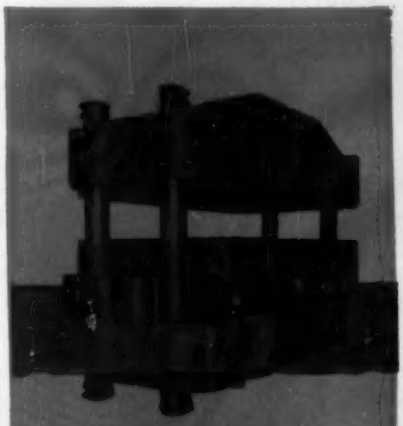

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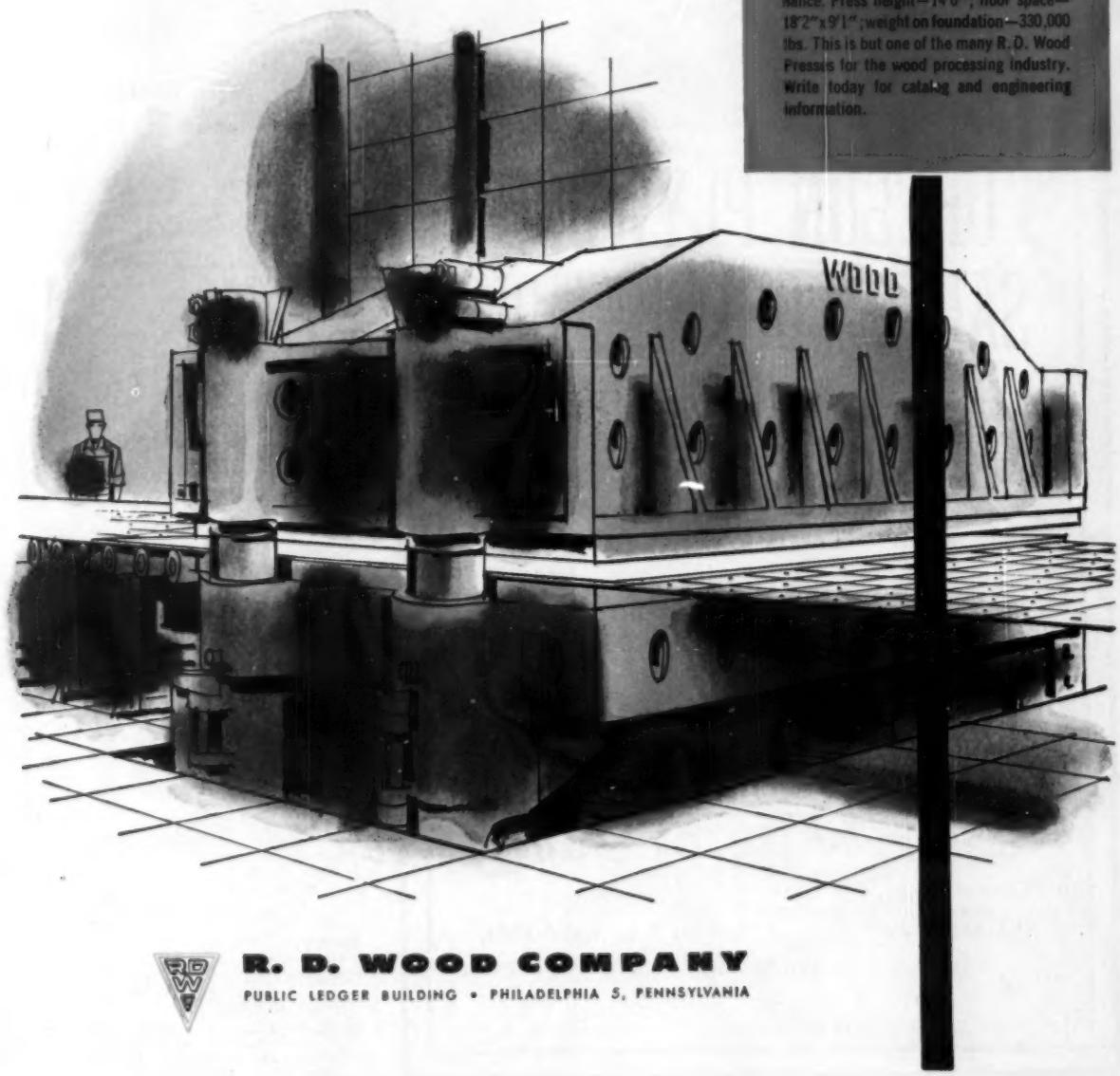

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UNITED STATES PLYWOOD CORP.,
Shasta Division

Plant Address: Anderson, Calif.
Telephone: Emerson 5-7631.
Home Address: P.O. Box 1688, Redding, Calif.
Executive Offices: 55 West 44th St., New York 36, N. Y.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,00 sq. ft. Species: 30,000,000 sq. ft. pine; 16,000,-000 sq. ft. ponderosa; 8,000,000 sq. ft. sugar pine; 6,000,000 sq. ft. white fir.

SPECIAL PRODUCTS: 6,500,000 sq. ft. brushed panels.

EQUIPMENT: 2 lathes; 3 dryers; 2 hot presses; maximum press size 48x120 in.

PERSONNEL: S. W. Antoville, Chairman of Board, Gene C. Brewer, Pres., New York, N. Y.; K. L. Morrow, gen. mgr.; W. C. Smith, plywood production mgr.; L. H. Boudreau, sales mgr.

SALES AGENTS: United States Plywood Corp., New York, N. Y.; Birmingham, Ala.; Phoenix, Ariz.; Culver City, Calif.; Fresno, Calif.; Glendale, Calif.; Los Angeles, Calif.; Oakland, Calif.; Sacramento, Calif.; San Diego, Calif.; San Francisco, Calif.; Santa Ana, Calif.; Santa Clara, Calif.; Denver, Colo.; East Hartford, Conn.; Washington, D. C.; Jacksonville, Fla.; Miami, Fla.; Tampa, Fla.; Atlanta, Ga.; Chicago, (Burnside Br.), Ill.; Chicago, Ill.; Indianapolis, Ind.; Louisville, Ky.; New Orleans, La.; Baltimore, Md.; Boston, Mass.; Detroit, Mich.; Grand Rapids, Mich.; Saginaw, Mich.; St. Paul, Minn.; Kansas City, Kan.; St. Louis, Mo.; Omaha, Nebr.; Newark, N. J.; Albany, N. Y.; Brooklyn, N. Y.; Buffalo, N. Y.; New Hyde Park, N. Y.; Rochester, N. Y.; Syracuse, N. Y.; Charlotte, N. C.; High Point, N. C.; Raleigh, N. C.; Cincinnati, Ohio; Cleveland, Ohio; Columbus Ohio; Toledo, Ohio; Youngstown, Ohio; Oklahoma City, Okla.; Portland, Ore.; Allentown, Pa.; Harrisburg, Pa.; Philadelphia, Pa.; Pittsburgh, Pa.; Pittston, Pa.; Providence, R. I.; Columbia, S. C.; Dallas, Tex.; Houston, Tex.; San Antonio, Tex.; Knoxville, Tenn.; Memphis, Tenn.; Salt Lake City, Utah; Norfolk, Va.

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WINTON LUMBER CO.

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Telephone: Jackson 516.
Home Address: Minneapolis, Minn.
Plant under construction.

PERSONNEL: D. J. Winton, pres.; J. T. Rushton, plant mgr.

SALES AGENTS: Winton Lumber Sales Co., Minneapolis, Minn.

IDAHO

POTLATCH FORESTS, INC.

Lewiston, Ida.
Telephone: SH 3-4561 Teletype: LE 92

ANNUAL CAPACITY: (3/8-inch, 3-ply) 24,000,-000 sq. ft. 1958 estimated production (3/8-inch basis) 15,000,000 sq. ft. Species: 12,000,000 sq. ft. ponderosa; 2,000,000 sq. ft. cedar; 7,-800,000 sq. ft. white pine; 1,200,000 sq. ft. larch.

SPECIAL PRODUCTS: 3,072,000 sq. ft. Loc-Wall.

EQUIPMENT: 1 lathe, 1 slicer, 2 dryers, 1 cold press.

PERSONNEL: R. E. Bundy, pres.; C. J. Johnson, sls. mgr.; Cart Twietmeyer, plant supt.; Lawrence Bashore, plant mgr.

SALES AGENTS: Weyerhaeuser Sales Co., First National Bank Bldg., St. Paul Minn.

MONTANA

POLSON PLYWOOD CO.

Polson, Mont.
Telephone: 340

ANNUAL CAPACITY: (3/8-inch, 3 ply) 20,000,000 sq. ft. 1958 estimated production (3/8" basis) 20,000,000 sq. ft. Species: 3,500,000 sq. ft. Douglas fir; 1,000,000 sq. ft. Ponderosa; 14,000,000 sq. ft. larch; 1,100,000 sq. ft. spruce; 400,000 sq. ft. cottonwood.

EQUIPMENT: 1 lathe, 1 slicer, 1 dryer, 1 cold press.

PERSONNEL: Will Tiddy, pres. & gen. mgr.; George J. Kern, sls. mgr.; Daniel C. Learned, plant supt.

SALES AGENTS: Mackie & Lewis, 805 American Bldg., Seattle, Wash.

OREGON

ASTORIA PLYWOOD CORP.

409-23rd, Astoria, Ore.
Telephone: Fairfax 5-6021
Teletype: TWX Astoria, Ore. 453

ANNUAL CAPACITY: (3/8-inch, 3 ply) 59,449,000 sq. ft. 1958 estimated production (3/8" basis) 49,800,000 sq. ft. Species: 49,800,000 sq. ft. Douglas fir; 358, 560 sq. ft. white pine; 6,070,620 sq. ft. spruce.

SPECIAL PRODUCTS: Embossed panels.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press; maximum press size 48x96".

PERSONNEL: Howard Thomassen, pres.; Fred J. Peirson, gen. & sls. mgr.; Arley Kangas, plant supt.

SALES AGENTS: Vancouver Plywood Co., 1010 Washington St., Vancouver, Wash.

BATE LUMBER CO.,
Plywood Division

Plant Address: Merlin, Ore.
Home Address: Executive Bldg., Portland, Ore.
Telephone: CA 7-6691
Teletype: PD 203

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,200,-000 sq. ft. Species: Douglas fir, ponderosa, sugar pine, white fir, birch, white pine.

EQUIPMENT: 2 lathes, 3 dryers, 2 hot presses; maximum press size 48x96".

PERSONNEL: John L. Bate, pres.; C. L. Lindquist, gen. mgr.; E. M. Bate, sls. mgr.; C. Johnson, plant supt.

SALES AGENTS: Eastern Sales: J. Herbert Bate Co., P. O. Box 908, New York City, N. Y.; Western Sales: Plywood Div., Bate Lumber Co., Executive Bldg., Portland, Ore.

Robert N. Kelly
President

George R. Van Vleet, Jr.
Vice-president

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EVANS PRODUCTS COMPANY also produces: fir lumber; Evanite® battery separators; railroad loading equipment; truck and bus heaters; bicycles and velocipedes; Haskelite building panels, Plymetl & doors; Evanite Plywall

BROOKINGS PLYWOOD CORP.

Box 1008, Brookings, Ore.
Telephone: 2711 Teletype: Brookings 491
ANNUAL CAPACITY: (3/8-inch, 3 ply) 66,000,000 sq. ft. 1958 estimated production (3/8" basis) 66,000,000 sq. ft. Species: 65,000,000 sq. ft. Douglas fir; 1,000,000 sq. ft. Philippine mahogany.
SPECIAL PRODUCTS: 1,000,000 sq. ft, hardwood faced panels; knotty pine.
EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 2 hot presses; maximum press size 48x96".
PERSONNEL: J. W. Kline, pres.; J. J. Connors, gen. & sls. mgr.; L. K. Cummins, plant supt.
SALES AGENTS: Northwest Door & Plywood Sales.

CAMPBELL & McLEAN, INC.

199 No. Bertelsen Rd., Eugene, Ore.
Telephone: DI 5-0577 Teletype: EG 120
ANNUAL CAPACITY: (3/8-inch, 3 ply) 150,000,000 sq. ft. 1958 estimated production (3/8" basis) 130,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 6 dryers, 5 cold presses; maximum press size 48x96".
PERSONNEL: C. F. Campbell, pres.; L. C. Nelson, sls. mgr.; C. O. Thomason, plant mgr.
SALES AGENTS: CAMAC Plywood Sales.

CAROLINA PACIFIC PLYWOOD, INC.

Plant Address: White City, Ore.
Telephone: TAlbot 6-2571
Teletype: White City 156
Home Address: P. O. Box 949, Medford, Ore.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. 1958 estimated production (3/8" basis) 55,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 dryer, 1 cold press; maximum press size 48x96".
PERSONNEL: B. D. Mitchell, pres.; Glen Leach, plant supt.
SALES AGENTS: Corbett Plywood Corp., Wilmington, N. C.; Carolina Pacific Sales, Inc., Wilmington, N. C.

CASCADES PLYWOOD CORP.

Plant Address: Lebanon, Ore.
Home Address: 1316 Public Service Bldg., Portland, Ore.
Telephone: CA 7-3648. Teletype: PD 149.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 150,000,000 sq. ft. 1958 estimated production (3/8" basis) 150,000,000 sq. ft. Species: Douglas fir and 10,000,000 sq. ft. other species.
SPECIAL PRODUCTS: 5,000,000 sq. ft plastic or paper overlays; 5,000,000 sq. ft. striated panels; 8,000,000 sq. ft. Texture One-Eleven; 2,000,000 sq. ft. scarfed panels; 600,000 sq. ft. 2.4.1. panels; 7,000,000 sq. ft. hardboard faced; 24,000,000 sq. ft. cut up items.
EQUIPMENT: 3 lathes, 6 dryers, 5 hot presses; maximum press size 68x133".
PERSONNEL: C. W. Fox, pres. & gen. mgr.; B. V. Hancock, sls. mgr.; Mal Beard, plant supt.; A. E. Anderson, plant mgr.
SALES AGENTS: U. S. Plywood Corp.

COOS BAY TIMBER CO.

Plant Address: Coquille, Ore.
Telephone CO 7-2161 Teletype: Coquille 67
Home Address: Coos Bay, Ore.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 200,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 5,000,000 sq. ft. 2.4.1. panels; 7,500,000 sq. ft. hardboard faced.
EQUIPMENT: 3 lathes, 5 dryers, 2 cold presses; maximum press size 60x120 in.
PERSONNEL: R. P. Pamplin, pres.; W. H. Hunt, gen. sls. mgr.; Jens Jorgensen, plant mgr.; F. V. Langfitt, Jr., sls. mgr.; R. E. Flowerree, Jr., vice-pres. & gen. mgr.
SALES AGENTS: Georgia Pacific Corp., Portland, Ore.

COOS HEAD TIMBER CO.

P. O. Box 750, Coos Bay, Ore.
Telephone: Congress 7-2193 Teletype: 682
ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 36,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 720,000 sq ft. 2.4.1. panels.
EQUIPMENT: 1 lathe, 2 slicers, 1 dryer, 1 cold press; maximum press size 48x96".
PERSONNEL: F. Willis Smith, pres.; H. A. Page, sls, mgr.: William Winkel, plant supt.
SALES AGENTS: Coos Head Lumber & Plywood Co.

COQUILLE VALLEY LUMBER CO., INC.

Plant Address: Milwaukie, Ore.
Telephone: Olive 4-6561
Teletype: TWX 774 Milwaukie
Home Address: Route 3, Alsea, Ore.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (3/8" basis) 50,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 dryer, 1 cold press, 2 hot presses.
PERSONNEL: Leon Guggenbickler, pres.; Noble H. Chowning, gen. mgr. & sls. mgr.; Noble H. Chowning, Jr., plant mgr.; Ray Buckner, plant supt.

CORVALLIS PLYWOOD

Plant Address: Airport Road, Corvallis, Ore.
Telephone: Plaza 3-4463.
Home Address: Box 411, Corvallis, Ore.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 150,000,000 sq. ft. 1958 estimated production (3/8" basis) 100,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 3 dryers, 1 cold press, 1 hot press; maximum press size 48x96 in.
PERSONNEL: J. A. Overgard, pres. & gen mgr.; Carlos Ribagliati, sls. mgr.; Fred Darby, plant supt.

CUSTOM PLYWOOD, INC.

2755 Ament Dam Road, Grants Pass, Ore.
Telephone: GR 6-3441
Teletype: Grants Pass 154
ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 48,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 dryer, 2 cold presses; maximum press size 48x96".

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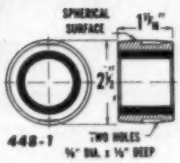

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24-hr. operation 7 days each week (No downtime for maintenance, replacement or greasing)

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651-07	5/8"	9	1 7/8"
651-08	1"	8	1 1/2"
651-11	1 3/4"	6	1 7/8"
651-12	1 1/2"	6	1 7/8"
651-14	1 3/4"	5	1 7/8"

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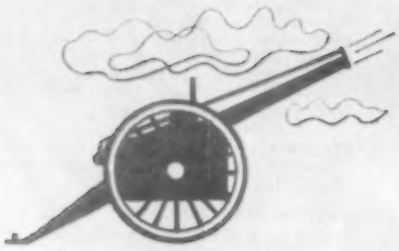
NAME AND TITLE
COMPANY
ADDRESS
CITY ZONE STATE

GRAPHITE METALLIZING CORPORATION
1081 NEPPERHAN AVENUE
YONKERS, NEW YORK



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CLEAR FIR PRODUCTS CO., OREG., LTD.
J. R. Nell, Director

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A. J. Honzel, President

DRAIN PLYWOOD CO.
Harold Woolley, President

OREGON VENEER CO.
J. Hoare, President

MYRTLE CREEK PLYWOOD, INC.
Wm. Vance, President

PLY-BORD, INC.
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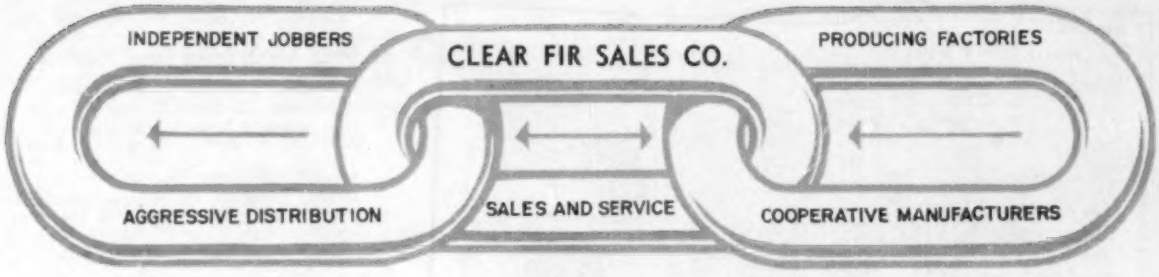

No Weak Link in this Chain!

Thanks to you, Mr. Independent Jobber, for the splendid job you have done this past year.

How do we know? It's simple arithmetic!

Because of you, we have enjoyed one of our biggest year's volume ever. We have no captive jobbing outlets. Our entire production from eight mills and factories is sold entirely to jobbers, and during the past year, ninety-seven per cent of our volume was repetitive. This continued repeat business in ever increasing volume is how we know you did such a splendid job for both yourselves and for us.

We maintain seven sales offices conveniently located to give you maximum service, all staffed by experienced representatives who sell our products exclusively and are dedicated to our policy of "Serve our customers better with the best." The future looks bright, and with your continued friendly cooperation, we can all anticipate continued progress. Again, our thanks to you.

Sincerely yours,

CLEAR FIR SALES CO.

Frank S. Clarke
Director of Sales

Home Office:
CLEAR FIR SALES CO.
P.O. Box 188
Springfield, Oregon
Phone, RIverside 7-3335
TWX SPFD-072

OUR GOAL IS TO:

1. ***Give you a good product***
2. ***Keep our promises***
3. ***Give you prompt answers***
4. ***Help solve your special problems with special service***
5. ***Competitive prices***
6. ***Protect those with whom we do business***
7. ***Back the above with ACTION***

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AMERICAN
CASE HISTORY #15

Five American Sheet dust collectors stand like towers atop the new U. S. Plywood Roseburg plant. Collectors are equipped with new type tops that permit air to escape vertically and keep moisture out.

U.S. Plywood's most modern plywood plant selects American dust collecting systems

U. S. Plywood's newest plant at Roseburg, Oregon, uses five American dust collecting systems.

Two American blower systems handle the waste from two sanding systems. Waste is delivered to American surge hoppers where it is metered to a Rader high-pressure conveying system which carries the waste 1400 feet to another American surge hopper adjacent to the boiler house.

Three American blower systems which serve the cut-up and hog departments, plus the patch department and belt sanders, deliver the waste to American surge hoppers where the waste is metered into a Rader high-pressure relay system. This delivers the material to the fuel storage house.

All blower systems, surge bins and dust collectors were fabricated and installed by American Sheet Metal Works. In order to save time, the two chip surge bins were fabricated at the American Portland plant and shipped as units to Roseburg.

Should your plans include sheet metal work of any type, consult American. You'll be glad you did.

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DRAIN PLYWOOD COMPANY.....DRAIN, OREGON
DWYER LUMBER COMPANY.....PORTLAND, OREGON
TILLAMOOK VENEER.....TILLAMOOK, OREGON
DIAMOND LUMBER COMPANY.....TILLAMOOK, OREGON

AMERICAN
MEANS
EFFICIENCY

AMERICAN
SHEET METAL WORKS, Inc.
Manufacturers of Blowers
920 NE Glisan Portland, Oregon BE 2-0111

PERSONNEL: B. D. Mitchell, pres.; Hugh R. Blacketor, sls., gen. and plant mgr.; Ray Smith, plant supt.
SALES AGENTS: North-Robbins Plywood, Inc.

DIAMOND LUMBER CO., Plywood Division

Plant Address: P.O. Box 192, Tillamook, Ore.
Home Address: 323 Pittock Block, Portland 5, Ore.
Telephone: CA 2-9805. Teletype: PD 499.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 96,000,000 sq. ft. 1958 estimated production (3/8" basis) 96,000,000 sq. ft. Species: 80,000,000 sq. ft. Douglas fir; 1,119,000 sq. ft. Philippine mahogany; 700,000 sq. ft. white pine; 2,000,000 sq. ft. spruce; 1,768,000 sq. ft. birch; 25,000 sq. ft. oak; 21,000 sq. ft. walnut.
SPECIAL PRODUCTS: 2,961,000 sq. ft. plastic or paper overlays; 3,117,000 sq. ft. hardwood faced panels; 474,000 sq. ft. Texture One-Eleven; 8,500,000 sq. ft. scarfed panels; 145,000 sq. ft. 2.4.1. panels; 1,342,000 sq. ft. other products; Diamond siding.
EQUIPMENT: 2 lathes; 2 dryers; 3 hot presses; maximum press size 48x96".
PERSONNEL: Roy A. Gould, pres. & gen. mgr.; Gerald G. Nessler, sales mgr.; Douglas Knokey, plant mgr.; Eugene R. Knokey, plant supt.

DOUGLAS FIR PLYWOOD CO.

Plant Address: Bandon, Ore.
Home Address: P.O. Box 1091, Roseburg, Ore.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 54,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 dryers; 1 hot press; maximum press size 48x96 inches.
PERSONNEL: Robert Hamann, production mgr.
SALES AGENTS: Roseburg Lbr. Co., P.O. Box 1091, Roseburg, Ore.

DOUGLAS FIR PLYWOOD CO.

Plant Address: Coquille, Ore.
Home Address: Box 1091, Roseburg, Ore.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 84,000,000 sq. ft. Species: Douglas Fir.
EQUIPMENT: 2 lathes; 4 dryers; 2 hot presses; maximum press size 48x96 in.
PERSONNEL: Robert Hamann, production mgr.
SALES AGENTS: Roseburg Lumber Co., P.O. Box 1091, Roseburg, Ore.

DRAIN PLYWOOD CO.

P.O. Box 98, Drain, Ore.
Telephone: Temple 6-9144.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. 1958 estimated production (3/8" basis) 40,000,000 sq. ft. Species: Douglas Fir.
SPECIAL PRODUCTS: 10-foot panels 90% of production.
EQUIPMENT: 2 lathes; 1 dryer; 1 hot press; maximum press size 60x120 in.
PERSONNEL: Harold Woolley, pres.; Frank Clarke, sales mgr.; Al Fields, plant supt.
SALES AGENTS: Clear Fir Sales Co., Springfield, Ore.

DWYER LUMBER & PLYWOOD CO.

6637 S. E. 100th Ave., Portland 66, Ore.
Telephone: PR 5-6711; Teletype: PD 793.
ANNUAL CAPACITY: (3/8-inch, 3 ply) 42,500,000 sq ft. 1958 estimated production (3/8" basis) 21,000,000 sq. ft. Species: Douglas fir, hemlock.
EQUIPMENT: 1 lathe; 1 dryer; 1 hot press; maximum press size 60x108".
PERSONNEL: A. J. Dwyer, pres.; E. C. Dwyer, gen. mgr.; A. F. Janowski, sales mgr.; Gordon Ellison, plant supt.

EUGENE PLYWOOD CO.

2511 West 6th St., P. O. Box 3486, Eugene, Ore.
Telephone: Diamond 5-0156.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 48,000,000 sq. ft. Douglas fir.
EQUIPMENT: 1 dryer, 1 hot press. Maximum press size: 4x8 ft.
PERSONNEL: Hayden Hastings, pres. and gen. mgr.; Doyle Hastings, vice-pres. and plant supt.; Ralph Cole, sec.-treas.
SALES AGENTS: Harold R. Jones, Inc.; Eugene, Oregon.

POLSON PLYWOOD CO.

MEMBER OF DOUGLAS FIR PLYWOOD ASSOCIATION

Polson, Montana

Phone 340

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SHEATHING and SANDED PANELS

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MONTANA TIMBER-Larch-Fir-Spruce-Pine

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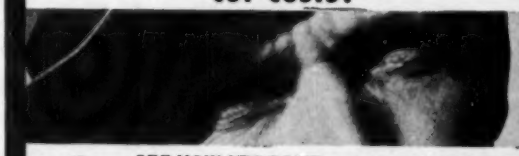

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CORLEY SAWMILL MACHINERY

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EVANS PRODUCTS CO.

P.O. Box 839, Coos Bay, Ore.
Telephone: Congress 7-3194.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 80,000,000 sq .ft. 1958 estimated production (3/8" basis) 70,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 1,800,000 sq. ft. scarfed panels.

EQUIPMENT: 2 dryers; 1 cold press; 2 hot presses.

PERSONNEL: E. S. Evans, Jr., pres.; C. J. Short, vice pres. & gen. mgr., Western Division; W. J. Ritchie, sales mgr.; Clyde Lovell, plant supt.; R. G. Extra, Asst. sales mgr.; Howard W. Bullard, chief engineer.

EVANS PRODUCTS CO.

Plant Address: Roseburg, Ore.
Telephone: Orchard 2-2646.
Home Address: P.O. Box 839, Coos Bay, Ore.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 44,000,000 sq. ft. 1958 estimated production (3/8" basis) 44,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 1 dryer; 1 hot press.

PERSONNEL: E. S. Evans, Jr., pres.; C. J. Short, vice pres. & gen. mgr., Western Division; W. J. Ritchie, sales mgr.; R. G. Extra, asst. sales mgr.; Harold Hall, plant supt.

FIR-PLY, INC.

Plant Address: White City, Ore.
Home Address: P.O. Box 9, Medford, Ore.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 54,000,000 sq. ft. 1958 estimated production (3/8" basis) 43,300,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 2 dryers; 1 cold press; maximum press size 48x96".

PERSONNEL: Carl Jacobson, pres. & gen. mgr.; E. A. Clark, plant supt.

SALES AGENTS: Northwest Door & Plywood Sales, Inc.

GEORGIA PACIFIC CORP.

Coos Bay, Oregon (To be completed Spring 1959)
Telephone: CO 7-2161.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 96,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes; 3 dryers; 3 hot presses; maximum press size 60x120 in.

PERSONNEL: R. B. Pamplin, pres.; R. E. Flowerree, Jr., vice pres. & gen. mgr.; Art Olsen, plant mgr.; W. H. Hunt, vice pres. of sales; F. V. Langfitt, Jr., sales mgr.

GEORGIA PACIFIC CORP.

Toledo, Ore.
Telephone: 3-2211; Teletype: Tol. Ore. 383.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 96,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 5,000,000 sq. ft. Texture One-Eleven; 5,000,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 3 lathes; 4 dryers; 3 hot presses; maximum press size 60x120 in.

PERSONNEL: R. B. Pamplin, pres.; R. E. Flowerree, Jr., vice pres. & gen. mgr.; W. H. Hunt, vice pres. of sales; Hank McCue, plant mgr.; F. V. Langfitt, Jr., sales mgr.

GIUSTINA VENEER CO.

Box 989, Eugene, Ore.
Telephone: DI 5-2301; Teletype: EG 064.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 1 dryer; 1 hot press; maximum press size 48x96".

PERSONNEL: N. B. Giustina, pres.; Harold Sanderson, sales mgr. & plant supt.; Ehrman V. Giustina, plant mgr.

GRANTS PASS PLYWOOD INC.

P.O. Box 670, Grants Pass, Ore.
Telephone: Greenwood 6-4474.
Teletype: Grants Pass, Ore., 159-U.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 84,000,000 sq. ft. 1958 estimated production (3/8" basis) 66,000,000 sq. ft. Species: 60,000,000 sq. ft. Douglas fir; 6,000,000 sq. ft. spruce.

SPECIAL PRODUCTS: 2,00,000 sq. ft. hardboard faced.

EQUIPMENT: 2 dryers; 1 cold press; 1 hot press; maximum press size 60x120 in.

PERSONNEL: F. A. Johnson, pres. & gen. mgr.; L. V. St. Onge, sales mgr.; C. A. Jones, plant supt.

SALES AGENTS: Plywood & Veneer Sales Co., P.O. Box 670, Grants Pass, Ore.

EDWARD HINES LUMBER CO.
Westfir Division

Plant Address: Westfir, Ore.
Telephone: Oakridge 2-2211.
Teletype: Oakridge 062.
Home Address: 200 South Michigan Avenue, Chicago 4, Ill.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. 1958 estimated production (3/8" basis) 34,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 800,000 sq. ft. plastic or paper overlays; 300,000 sq. ft. hardwood faced panels.

EQUIPMENT: 2 lathes; 2 dryers; 2 hot presses; maximum press size 48x96 in.

PERSONNEL: Charles M. Hines, pres.; Howard R. Lemons, gen mgr.; Sy Rodakowski, sales mgr.; Adolph Paul, plant mgr.; Clarence Herman, plant supt.

HUB CITY PLYWOOD CORP.

P.O. Box 254, Albany, Ore.
Telephone: WA 6-4424; Teletype: TWX Alby 659.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 85,000,000 sq. ft. 1958 estimated production (3/8" basis) 75,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers; 2 cold presses; maximum press size 48x96 in.

PERSONNEL: Elton Disher, pres. & gen mgr.; Wm. F. Gwinn, sales mgr.; Elmer E. Salo, plant mgr. & supt.

INTERNATIONAL PAPER COMPANY
Long-Bell Division

Plant Address: Gardiner, Ore.
Home Address: P.O. Box 1079, Longview, Wash.
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TRADE MARK

PLYWOOD JOBBER DISTRIBUTION

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 38,000,000 sq. ft. Species: 37,900,000 sq. ft. Douglas fir; 100,000 sq. ft. birch.

SPECIAL PRODUCTS: 300,000 sq. ft. Marine; 500,000 sq. ft. PlyKrate.

EQUIPMENT: 2 lathes; 2 dryers; 2 hot presses; maximum press size 48x96 in.

PERSONNEL: J. D. Leland, vice pres.; H. G. Kelsey, gen. mgr. western operations; E. H. Houston, gen. sales mgr.; A. J. Myers, br. mgr.; F. L. Foval, asst. gen. sales mgr.; R. Forsyth, plant supt.; F. N. McCullah, plywood sales.

SALES AGENTS: International Paper Co., Long-Bell Division—sales offices in all major cities.

INTERNATIONAL PAPER COMPANY
Long-Bell Division

Plant Address: Vaughn, Ore., (P.O. Box 632, Eugene, Ore.)
Home Address: Box 1079, Longview, Wash.
Telephone: Hamilton 3-2110; Teletype: 375.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 55,000,000 sq. ft. 1958 estimated production (3/8" basis) 46,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 400,000 sq. ft. PlyKrate.

EQUIPMENT: 2 lathes; 2 dryers; 2 hot presses; maximum press size 60x120 in.

PERSONNEL: J. D. Leland, vice pres.; H. G. Kelsey, gen. mgr. Western operations; E. H. Houston, gen. sales mgr.; J. M. White, Jr., br. mgr.; F. L. Foval, asst. gen. sales mgr.; A. Carter, plant supt.; F. N. McCullah, plywood sales.

SALES AGENTS: International Paper Co., Long-Bell Division—sales offices in all major cities.

JEFFERSON PLYWOOD CO.

Madras, Ore.
Telephone: 2902.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 50,000,000 sq. ft. 1958 estimated production (3/8" basis) 36,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 1 dryer; 1 cold press; 1 hot press; maximum press size 48x96 in.

PERSONNEL: Philip Dahl, pres.; J. P. Andrews, gen. mgr.; O. B. Williams, sales mgr.

KLAMATH HARDWOODS, INC.

P.O. Box 431, Klamath Falls, Ore.
Telephone: Tuxedo 2-4453.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 30,000,000 sq. ft. Species: 3,000,000 sq .ft. Douglas fir; 3,000,000 sq. ft. ponderosa; 5,000,000 sq. ft. Philippine mahogany; 1,500,000 sq. ft. maple; 3,000,000 sq. ft. white pine; 5,000,000 sq. ft. birch; 3,000,000 sq. ft. oak; 1,500,000 sq. ft. walnut; 5,000,000 sq. ft. other species.

SPECIAL PRODUCTS: 24,000,000 sq. ft. hardwood faced panels.

EQUIPMENT: 2 lathes; 2 dryers; 1 cold press; 2 hot presses; maximum press size 48x96 in.

PERSONNEL: Andy Honzel, Sr., pres. & gen. mgr.; Don Rigby, sales mgr.; Andy Honzel, Jr., plant mgr.; Gene Gronenthal, plant supt.

SALES AGENTS: Clear Fir Sales Co., Springfield, Ore.

LANE LAMINATORS

Prairie Road, Eugene, Ore.
Telephone: Diamond 4-5269.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 42,000,000 sq. ft. 1958 estimated production (3/8" basis) 20,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers; 1 cold press.

PERSONNEL: Rudy Nystrom, pres. & gen. mgr.; John M. Prince, sales mgr.; Ike Taylor, plant mgr.; Bill Russell, plant supt.

SALES AGENTS: Harold R. Jones, Inc., P.O. Box 252, Eugene, Ore.

LANE PLYWOOD, INC.

Route 5, Box 28, Eugene, Oregon.
Phone: Diamond 4-4289; Teletype EG 052.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 72,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 200,000 sq. ft. 2.4.1. panels; 200,000 sq. ft. annually NN-P-515.

EQUIPMENT: 1 lathe; 2 dryers; 1 cold press; 1 hot press; maximum press size 4' 4"x8' 6".

PERSONNEL: J. A. Morgan, pres.; Miles S. Munson, gen. and sales mgr.; Henry Blair, plant supt.

LINN PLYWOOD CORP.

9th & Hill, Albany, Ore.
Telephone: WA 6-1513. Teletype: ALBNY 697.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 95,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 68,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 3 dryers, 3 cold presses. Maximum press size 48x96 in.

PERSONNEL: James Perse, pres.; Edward Kellenberger, gen. mgr.; Floyd Van Horn, sls. mgr.; Ronald Groshong, plant supt.

SALES AGENTS: Roddis Plywood Corp.

LINNTON PLYWOOD ASSOCIATION

10504 N.W. St. Helens Rd., Portland, Ore.
Telephone: AV 6-3672.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 72,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: L. M. Hale, pres.; Jack Paul, plant supt.

SALES AGENTS: Georgia Pacific Corp., Portland, Ore.

MacKENZIE RIVER PLYWOOD CORP.

Plant address: Mohawk Rd., Springfield, Ore.
Home address: 243 Roan Drive, Eugene, Ore.
Telephone: Diamond 4-6526.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 48,000,000 (under construction) sq. ft.

EQUIPMENT: 1 dryer, 1 cold press. Maximum press size 48x96 in.

PERSONNEL: C. E. Anderson, pres. & gen. mgr.

THE MARTIN BROS. CONTAINER & TIMBER PRODUCTS CORP.

Plant address: P.O. Box 698, Oakland, Ore.
Telephone: 2211, 2212. Teletype: Oak. Ore. 86.
Home address: 39 Blucher St., P.O. Box 697, Toledo 1, Ohio.

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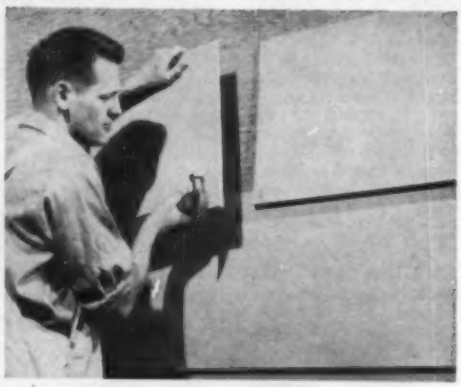

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Indianapolis 5, Indiana
Phone WAlnut 5-9214

Western Sales
WASHINGTON
PLYWOOD CO.
P.O. Box 746
Everett, Washington
Phone ALpine 9-5131

ANNUAL CAPACITY: (3/8-inch, 3-ply) 84,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 3,300,000 sq. ft. brushed panels; 1,320,000 sq. ft. sliced veneer panels; 1,320,000 sq. ft. hardwood veneer (1/8-inch).

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press.

PERSONNEL: F. J. Martin, chairman; D. J. Martin, pres. & sls mgr.; Ray Martin, plant mgr.; B. L. Martin, mgr.; Joseph Perrault, plant supt.

SALES AGENTS: 39 Blucher St., P.O. Box 697, phone: Cherry 8-4241, teletype: TO 578; Toledo, Ohio.

MEDFORD VENEER & PLYWOOD CORP.

Plant address: White City, Ore.
Telephone: Spring 3-3601. Teletype: MF 90.
Home address: 1103 N. Riverside, P.O. Box 507, Medford, Ore.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 82,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 60,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 100,000 sq. ft. hardwood faced panels; 500,000 sq. ft. brushed panels; 500,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Jack Colquhoun, pres.; Glen D. Jones, gen. mgr.; Carl Henning, sls. mgr.; Butch Zemlicka, plant supt.

SALES AGENTS: Western Forest Sales Corp., Suite 710 Granada Bldg., P.O. Box 1116, Santa Barbara, Calif.

MENASHA PLYWOOD CORP.

Box 877, North Bend, Ore.
Telephone: Skyline 9-2751. Teletype: Coos Bay 65U.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 84,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 78,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Shiplap; tongue & groove; sheathing. 10'.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x120 in.

PERSONNEL: D. G. Turner, pres.; A. P. Stinchfield, gen. mgr.; W. G. Craig, sls. mgr.; Ted Meyers, plant supt.; Don Wright, production mgr.

MONAGHAN PLYWOOD CO.

Plant address: Hwy 99 North, Eugene, Ore.
Telephone: DI 4-3670.
Home address: 2672 Harris, Eugene, Ore.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 5,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 100,000 sq. ft. cut up items.

EQUIPMENT: 1 dryer, 1 cold press. Maximum press size 48x96 in.

PERSONNEL: A. L. Hoffman, pres.

MULTI-USE PANEL CORP.

P.O. Box 789, Eugene, Ore.
Telephone: Diamond 5-2381.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 45,000,000 sq. ft. Species: 40,000,000 sq. ft. Douglas fir; 20,000,000 sq. ft. Philippine mahogany.

SPECIAL PRODUCTS: 12,000,000 sq. ft. Super Satin surface; 500,000 sq. ft. marine plywood.

EQUIPMENT: 2 dryers, 1 hot press.

PERSONNEL: Harold R. Jones, pres.; Nick Daviscourt, gen. mgr.; John M. Prince, sls. mgr.; Ike Taylor, prod. mgr.; Don Bristow, plant supt.

SALES AGENTS: Harold R. Jones, Inc., P.O. Box 252, Eugene, Ore.

MULTNOMAH PLYWOOD CORP.

1500 S.W. Harbor Drive, Portland 1, Ore.
Telephone: CA 8-8523. Teletype: PD 483.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 72,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 2 dryers, 2 cold presses, 1 hot press. Maximum press size 60x120 in.

PERSONNEL: F. J. Bickel, pres.; A. T. Nelson, gen. mgr.; A. J. Boho, sls. mgr.; Wayne Balo, plant supt.

NATRON PLYWOOD CO.

P. O. Box 295, Springfield, Oregon.
Telephone: RI 7-3371.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 45,000,000 sq. ft. Douglas fir.

EQUIPMENT: 1 lathe, 1 dryer, 1 cold press. Maximum press size: 4x8 ft.

PERSONNEL: Gordon W. Tripp, pres. and gen. mgr.; John Svejcar, sls. mgr.; Earl Dunsworth, dry end plant supt.; Bill Kirk, green end plant supt.

NORDIC PLYWOOD, INC.

Sutherlin, Ore.
Telephone: 2232 Teletype: Oak 63

ANNUAL CAPACITY: (3/8-inch, 3 ply) 36,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press; Maximum press size 48x96 in.

PERSONNEL: J. R. Adams, pres. & sls. mgr.; Larry Armstrong, asst. sls. mgr.; Milton Clay, plant supt.; N. H. Jacobson, plant mgr.

OREGON PLYWOOD CORP.

Sweet Home, Ore.
Telephone: Empire 7-2000.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 30,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Brushed panels.

EQUIPMENT: 2 lathes, 1 dryer, 1 hot press. Maximum press size 60x120 in.

PERSONNEL: R. F. Hofheins, pres.; Dwight C. Wood, gen. mgr.; Homer C. Earll, sls. mgr.; B. E. Beaman, plant supt.

SALES AGENTS: Oregon Plywood Sales Corp., 1234 Broadway, Buffalo 12, N.Y.

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Phone 2211

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Phone 2211

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Phone SUtter 1-2260

OREGON VENEER CO.

Plant address: White City, Ore.
Home address: 1103 N. Riverside, Medford, Ore.
Telephone: Spring 3-3601.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 50,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 1 dryer, 1 cold press. Maximum press size 48x96 in.

PERSONNEL: J. A. Hoare, pres. & gen. mgr.

SALES AGENTS: Clear Fir Sales Co., P.O. Box 188, Springfield, Ore

OREGON-WASHINGTON PLYWOOD CO.

Garibaldi, Ore.
Telephone: 241. Teletype: 730.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 90,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 3 dryers, 2 cold presses, 2 hot presses. Maximum press size 60x120 in.

PERSONNEL: Roy Backus, pres.; Theodore Nicolai, gen. & plant mgr.; Robert C. Berkey, sls. mgr.; Lester F. Hamann, plant supt.

SALES AGENTS: Eastern Office: 140 E. Hartsdale Ave., Hartsdale, N.Y.; B. A. Hondo, Daily News Bldg., Chicago, Ill.; William C. Shea, Capitol Hill Station, Denver, Colo.

PACIFIC PLYWOOD CO.

P.O. Box 78, Dillard, Ore.
Telephone: Osborne 9-8781. Teletype: RS 54.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: 70,000,000 sq. ft. Douglas fir; 2,000,000 sq. ft. hemlock.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Wm. F. Forrest, pres. & gen. mgr.; John J. Longfellow, sls. mgr.; Edw. C. Klemmer, plant supt.

SALES AGENTS: Plywood Service, Inc., Dillard, Ore.

PLYWOOD PRODUCTS CORP.

P.O. Box 609, Corvallis, Ore.
Telephone: Albany WA 6-3511; Corvallis PL 2-2461.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 192,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 165,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 4 cold presses. Maximum press size 48x96 in.

PERSONNEL: John S. Brandis, pres.; Roy J. Foy, gen. mgr.; G. S. Robinson, sales mgr.; Rod Brenneman, plant mgr.; Clair Grossman, plant supt.

ROSEBURG LUMBER CO, Plant No. 1

Plant address: Dillard, Ore.
Home address: Box 1091, Roseburg, Ore.
Telephone: OS 9-8741. Teletype: RS 33.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. Species: 58,750,000 sq. ft. Douglas fir; 750,000 sq. ft. white pine.; 3,000,000 sq. ft. hemlock; 3,500,000 sq. ft. birch; 9,000,000 sq. ft. other species.

SPECIAL PRODUCTS: 1,500,000 sq. ft. hardwood faced panels; 100,000 sq. ft. brushed panels; 5,000,000 sq. ft. Texture One-Eleven; 250,000 sq. ft. scarfed panels; 100,000 sq. ft. hardboard faced.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 2 hot presses. Maximum press size 60x96 in.

PERSONNEL: Kenneth W. Ford, pres.; C. H. Pearson, prod. mgr.; Earl Bleile, gen. sls. mgr.; Harry O'Neil, plywood sls. mgr.

ROSEBURG LUMBER CO., Plant No. 2

Plant address: Dillard, Ore.
Home address: Box 1091, Roseburg, Ore.
Telephone: OS 9-8741. Teletype: RS 33.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 126,000,000 sq. ft. Species: 120,000,000 sq. ft. Douglas fir; 6,000,000 sq. ft. hemlock.

SPECIAL PRODUCTS: 500,000 sq. ft. plastic or paper overlays; 200,000 sq. ft. hardboard faced.

EQUIPMENT: 3 dryers; 3 hot presses. Maximum press size 60x120 in.

PERSONNEL: Kenneth W. Ford, pres.; Cliff Pearson, prod. mgr.; Earl Bleile, gen. sls. mgr.; Harry O'Neil, plywood sls. mgr.

SANTIAM LUMBER CO.

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SHERIDAN HARDWOOD, INC

600 Mill Street, Sheridan, Ore.
Telephone: Thornwall 3-2232.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 36,000,000 sq. ft. Species: Philippine mahogany; maple; birch; other species.

SPECIAL PRODUCTS: 36,000,000 sq. ft. hardwood faced panels.

EQUIPMENT: 1 dryer, 1 cold press, 1 hot press. Maximum press size 60x96 in.

PERSONNEL: John Tyner, pres. & gen. mgr.

SALES AGENTS: Chinn & Hall, Seattle, Wash.

SIMPSON LOGGING CO.

Albany, Ore.
Telephone: WAbash 6-2228.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 56,250,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Panels up to 8 in. thick, scarfed panels, 2.4.1 panels.

EQUIPMENT: 1 lathe, 2 dryers, 2 hot presses. Maximum press size 48x120 in.

PERSONNEL: H. W. McClary, vice pres.; H. N. Johns, mgr.; R. W. Fletcher, sls. mgr.; E. V. Bennett, plant mgr.; Ray Robb, plant supt.; H. A. Ahlskog, mfg. mgr.

SIMPSON LOGGING CO.

Lyons, Ore.
Telephone: Ulrich 9-2323.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Embossed fir, rotary pine, brushed panels, striated panels, scarfed panels, 2.4.1. panels, cut-up items.

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EQUIPMENT: 2 lathes, 2 dryers,2 hot presses. Maximum press size 60x120.

PERSONNEL: H. W. McClary, vice pres.; H. N. Johns, mgr; R. H. Fletcher, sls. mgr. Guy M. Hartle, plant mgr.; E. Novak, plant supt.; H. A. Ahlskog, mfg. mgr.

SIMPSON LOGGING CO.

Portland, Ore.
Telephone: Avenue 6-0634.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. Species: 43,100,000 sq. ft. Douglas fir; 4,000,000 sq. ft. Philippine mahogany; 5,200,000 sq. ft. knotty pine; 22,700,000 sq. ft. birch.

SPECIAL PRODUCTS: Jumbo panels up to 8x12 ft. in one piece, hardwood faced panels, sliced veneer panels, cut-up items.

EQUIPMENT: 2 lathes, 1 slicer, 5 dryers, 4 hot presses. Maximum press size 96x144 in.

PERSONNEL: H. W. McClary, vice pres.; H. N. Johns, mgr.; R. H. Fletcher, sls. mgr.; Kevin Carty, plant mgr.; W. E. Quay, plant supt.; H. A. Ahlskog, mfg. mgr.

SNELLSTROM LUMBER CO.

Plant address: 2818 West Sixth Ave., Eugene, Ore.
Telephone: DI 2-1141.
Home address: P.O. Box 449, Eugene, Ore.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 45,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 2,000,000 sq. ft. Texture One-Eleven; 1,000,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 1 lathe, 2 dryers, 2 hot presses. Maximum press size 48x96 in.

PERSONNEL: Orrin P. Snellstrom, pres. & gen. mgr.; Edward F. Wade, sls. mgr.; A. T. Olson, plant supt.

SOUTHERN OREGON PLYWOOD, INC.

605 S.E. J St., Grants Pass, Ore.
Telephone: Greenwood 6-6681.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: Douglas fir, ponderosa, Philippine mahogany, birch, other species.

SPECIAL PRODUCTS: 2,000,000 sq. ft. hardwood faced panels; 300,000 sq. ft. 2.4.1. panels; 400,000 sq. ft. hardboard faced.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x120 in.

PERSONNEL: A. E. Anderson, pres.; Jackson Beaman, gen. & sls. mgr.; M. J. Oreskovic, plant supt. & mgr.

SALES AGENTS: F. A. Lawrence, P.O. Box 325, Austin, Tex.

SPRINGFIELD PLYWOOD CORPORATION

410 South 14 St., Springfield, Ore.
Telephone: Riverside 7-3321. Teletype: 083.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 110,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 3 lathes, 4 dryers,1 cold press, 3 hot presses. Maximum press size 60x144 in.

PERSONNEL: R. B. Pamplin, pres.; Arthur P. West, plant mgr.; Earl Trabue, plant supt.

SALES AGENTS: Georgia-Pacific Corp., Equitable Bldg., Portland, Ore.; Booth-Kelly Lumber Co., P.O. Box 248, Springfield, Ore.

TILLAMOOK VENEER CO.

Plant address: Naval Air Station, Tillamook, Ore.
Home address: P.O. Box 193, Tillamook, Ore.
Telephone: VI 2-7503.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 84,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 30,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press. Maximum press size 60x120 in.

PERSONNEL: Walter Purcell, pres.; Elmer Hall, gen. sls. & plant mgr.; B. G. Monteith, plant supt.

SALES AGENTS: Vancouver Plywood Co., P.O. Box 720, Vancouver, Wash.

TIMBER PRODUCTS CO.

P.O. Box 1032, Medford, Ore.
Telephone: SP 3-6681.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 50,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 3 dryers, 2 cold presses, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: H. T. Mudd, pres.; T. K. Oliver, gen. mgr.; E. F. Holligan, sls. mgr.; D. C. Jackson, plant mgr.; C. F. Underwood, plant supt.

UMPQUA PLYWOOD CORP.

P.O. Box 192, Roseburg, Ore.
Telephone: Orchard 2-3381.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 50,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 35,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum size press 48x120 in.

PERSONNEL: W. H. Gonyea, pres.; G. S. McCarthy, gen. & plant mgr.; F. S. Clarke, sls. mgr.

SALES AGENTS: Clear Fir Sales Co., P.O. Box 188, Springfield, Ore.

UNITED STATES PLYWOOD CORP., Oregon Division

Plant address: 2nd & Garfield Sts., P.O. Box 672, Eugene, Ore.
Telephone: Diamond 4-2203. Teletype: EG 069
Home address: 55 West 44th St., New York 17, N. Y.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 69,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: Marine in any length and all exterior types, sea swirl, Texture One-Eleven.

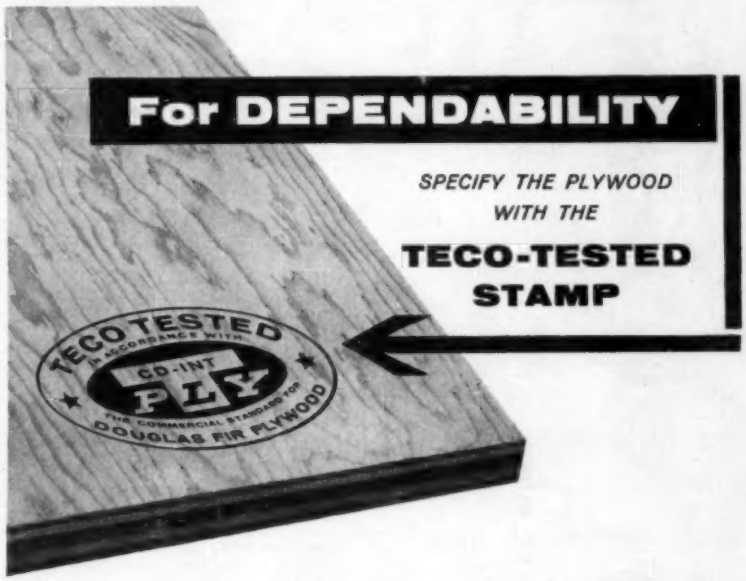
EQUIPMENT: 2 lathes, 3 dryers, 3 hot presses.

PERSONNEL: S. W. Antoville, chmn. of board; Gene C. Brewer, pres., 55 West 44th Street, New York, N. Y.; Marshall R. Leeper, gen. mgr.; Verner A. Carlson, plant supt.

SALES AGENTS: Offices in all major cities in U. S. and Canada. See listing of Anderson, Calif., plant.

UNITED STATES PLYWOOD CORP., Oregon Division

Plant address: P.O. Box 100, Mapleton, Ore.
Telephone: 34412. Teletype: 015.
Administrative headquarters and Main Sales of-



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ANNUAL CAPACITY: (3/8-inch, 3-ply) 63,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 3 dryers, 1 hot press.

PERSONNEL: S. W. Antoville, chmn. of board; Gene C. Brewer, pres., 55 West 44th Street, New York, N. Y.; Marshall R. Leeper, gen. mgr.; Harry Russell, operations mgr.; Tom Elwell, plant supt.

SALES AGENTS: Offices in all major cities in U. S. and Canada. See listing of Anderson, Calif., plant.

UNITED STATES PLYWOOD CORP., Oregon Division

Plant address: P.O. Box 628, Roseburg, Ore.
Telephone: Orchard 2-3331. Teletype: 59
Administrative headquarters and Main Sales office: P.O. Box 672, Second and Garfield Sts., Eugene, Ore.
Home office: 55 West 44th Street, New York 17, N. Y.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 2 dryers, 2 hot presses.

PERSONNEL: S. W. Antoville, chmn. of board; Gene C. Brewer, pres., 55 West 44th Street, New York, N. Y.; Marshall R. Leeper, gen. mgr.; George E. French, operations mgr.; Ralph G. DeMoisy, production mgr.; Oscar Eklund, plant supt.

SALES AGENTS: Offices in all major cities in U. S. and Canada. See listing of Anderson, Calif., plant.

UNITED STATES PLYWOOD CORP., Oregon Division

Plant address: P.O. Box 7, Willamina, Ore.
Telephone: Trinity 6-2042. Teletype: 324.
Administrative headquarters and Main Sales office: P.O. Box 672, Second and Garfield Sts., Eugene, Ore.
Home office: 55 West 44th Street, New York 17, N. Y.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 48,300,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 3 dryers, 3 hot presses.

PERSONNEL: S. W. Antoville, chmn. of board; Gene C. Brewer, pres., 55 West 44th Street, New York, N. Y.; Marshall R. Leeper, gen. mgr.; William W. Wells, acting mgr.; Lawrence Ballo, plant supt.

SALES AGENTS: Offices in all major cities in U. S. and Canada. See listing of Anderson, Calif. plant.

VALSETZ LUMBER CO.

Valsetz, Ore.
Home Office: 807 Terminal Sales Bldg., Portland, Ore.
Telephone: CA 7-3521

ANNUAL CAPACITY: (3/8-inch basis) 60,000,000 sq.ft. Douglas fir. Will start producing plywood in March, 1959.

EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press opening 48x96 inches.

PERSONNEL: Hall Templeton, pres.; H. F. Thomas, vice-pres. & mgr.; Jean Grady, sls. mgr.; Dewey Clay, plant supt.

SALES AGENTS: Herbert A. Templeton Co., 807 Terminal Sales Bldg., Portland 5, Ore.

VALLEY PLYWOOD CO.

Box 546, Junction City, Ore.
Telephone: WYman 8-2316.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 96,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 60,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press.

PERSONNEL: Russel W. Jones, pres.; Nick Daviscourt, gen. mgr.; John M. Prince, sls. mgr.; Dave Slaughter, plant supt.; Ike Taylor, plant mgr.

SALES AGENTS: Harold R. Jones, Inc., P.O. Box 252, Eugene, Ore.

WESTERN STATES PLYWOOD CORP.

Plant address: 5 Miles N.E. of Port Orford, Ore., on Elk River Rd.
Telephone: Edgewood 2-3711. Teletype: 603.
Home address: P.O. Box 86, Port Orford, Ore.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 70,200,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Herman C. Price, pres.; C. Ralph McKay, gen. mgr.; George B. Gustafson, plant supt.

SALES AGENTS: Aberdeen Plywood Corp., P.O. Box 340, Aberdeen, Wash.

WESTERN VENEER & PLYWOOD CO.

Plant address: Lebanon, Ore.
Home address: 326 Pacific Bldg., Portland 4, Ore.
Telephone: CA 7-5585.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 70,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 70,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 3 lathe, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Wm. Swindells, pres.; W. W. Affolter, sls. mgr.; Paul Boyd, plant supt.; Harry Graham, res. mgr.

WEYERHAEUSER TIMBER CO.

Plant address: Cottage Grove, Ore.
Telephone: Whitney 2-3332.
Home address: Tacoma, Wash.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 55,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 2 dryers, 2 hot presses. Maximum press size 48x96 in.

PERSONNEL: F. K. Weyerhaeuser, pres.; R. A. Kronenberg, plant mgr.; R. K. Headley, sales mgr.; John Zurich, plant supt.

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WEYERHAEUSER TIMBER CO.

Plant address: Springfield, Ore.
Telephone: Riverside 6-2511.
Home address: Tacoma, Wash.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 55,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 80,000,000 sq. ft. kraft-faced fir veneer marketed as Ply-Veneer.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: F. K. Weyerhaeuser, pres.; R. A. Kronenberg, plant mgr.; R. E. Miller, plant supt.

SALES AGENTS: Weyerhaeuser Sales Co., Box 1337, Tacoma, Wash.

WHITE CITY PLYWOOD CO

White City, Oregon.
Telephone: Talbot 6-2191.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 30,000,000 sq. ft. Douglas fir.

EQUIPMENT: 1 dryer, 1 cold press. Maximum press size: 4x8 ft.

PERSONNEL: Eldon McNamer, pres. and mgr.

SALES AGENTS: Pacific Wood Products, Seattle, Wash.

WILLAMETTE PLYWOOD CORP.

Aumsville, Ore.
Telephone: 304. Teletype: 79.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 80,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 80,000,000 sq. ft. Species: 68,000,000 sq. ft. Douglas fir; 3,000,000 sq. ft. Philippine mahogany; 1,000,000 sq. ft. maple; 5,500,000 sq ft. birch; 2,000,000 sq. ft. oak; 1,000,000 sq. ft. walnut.

SPECIAL PRODUCTS: 12,500,000 sq. ft. hardwood faced panels; 500,000 sq. ft. 2.4.1. panels; 4,000,000 sq. ft. sliced veneer panels.

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BRANCH OFFICES:

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Detroit 20, Michigan

Del Helton
#4 Dogwood Road
Media, Pa.

W. S. Nurenburg
Burk Burnett Building
Fort Worth 2, Texas

Marion T. Davis
P.O. Box 13042, Station K
Atlanta 24, Georgia

R. J. Cunningham
P.O. Box 223
Ponte Vedra Beach, Fla.

EQUIPMENT: 2 lathes, 2 dryers, 2 hot presses. Maximum press size 48x96 in.

PERSONNEL: Harold Leevers, pres.; R. G. Evans, sls. mgr.; M. L. Hopkins, plant mgr.; Lewis Dean, plant supt.

SALES AGENTS: Roddis Plywood Corp. and Willamette Plywood Corp.

WILLAMETTE VALLEY LUMBER CO.

Plant Address: Dallas, Ore.
Home Address: 326 Pacific Bldg., Portland 4, Ore.
Telephone: CA 7-5585.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 80,000,000 sq. ft. 1958 estimated production (3/8" basis) 80,000,000 sq. ft. Species: Douglas fir and hemlock.

EQUIPMENT: 1 lathe; 2 dryers; 2 cold presses; maximum press size 48x96 in.

PERSONNEL: Wm. Swindells, pres.; R. L. Boone, vice pres. & gen. mgr.; A. F. Quirin, sales mgr.; K. R. Hilliker, plant supt.; Paul Morgan, res. mgr.

WILLAMETTE VALLEY LUMBER CO.

Plant Address: Foster, Ore.
Home Address: 326 Pacific Bldg., Portland 4, Ore.
Telephone: CA 7-5585.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 58,000,000 sq. ft. 1958 estimated production (3/8" basis) 12,000,000 sq. ft. (started 10-20-58). Species: Douglas fir and hemlock.

EQUIPMENT: 1 lathe, 2 dryers; 1 cold press.

PERSONNEL: Wm. Swindells, pres.; R. L. Boone, vice pres. & gen. mgr.; A. F. Quirin, sales mgr.; T. F. Huntley, res. mgr.

YAMHILL PLYWOOD CO.

P.O. Box 538, McMinnville, Ore.
Telephone: 1-0631

ANNUAL CAPACITY: (3/8-inch, 3 ply) 30,000,000 sq. ft. 1958 estimated production (3/8" basis) 30,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 1 cold press; maximum press size 48x96 in.

PERSONNEL: R. H. Windishar, pres.; V. K. Wright, gen mgr.; O. H. Stewart, plant supt.

SALES AGENTS: U. S. Plywood Corp., Eugene, Ore.

WASHINGTON

ABERDEEN PLYWOOD & VENEERS, INC.

Foot of Alder St., Aberdeen, Wash.
Telephone: 4080. Teletype: AB-79.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 45,000,000 sq. ft. 1958 estimated production (3/8" basis) 40,000,000 sq. ft. Species: 9,000,000 Douglas fir; 2,000,000 sq. ft. Philippine mahogany; 18,000,000 sq. ft. cottonwood; 500,000 sq. ft. maple; 14,500,000 sq. ft. birch; 1,000,000 sq. ft. oak; 500,000 sq. ft. walnut; 500,000 sq. ft. other species.

SPECIAL PRODUCTS: 18,000,000 sq. ft. hardwood faced panels; 3,000,000 sq. ft scarfed panels; 18,000,000 sq. ft. Western hardwood, sanded and sheathing, CD-X.

EQUIPMENT: 2 lathes; 3 dryers; 2 hot presses; maximum press size 5x10'.

DOMESTIC PLYWOODS:

DOUGLAS FIR PLYWOOD
Sanded, Sheathing, Interior and Exterior, Plastic Overlays. Medium and High density Hardwood faces on Fir Core.

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HARDBOARD – PARTICLE BOARD
Medium, Hard, Very Hard. Overlays, Vinyl Surfaced, cut-to-size, wall panels.

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sales offices throughout the world

Dant & Russell, inc.

GENERAL OFFICE: PORTLAND 1, OREGON

PERSONNEL: J. C. Lloyd, pres. & sales mgr.; Monford A. Orloff, vice pres. & gen. mgr.; Claude Garrison, plant supt.; W. S. John, plant mgr.

ANACORTES VENEER, INC.

35th and V Avenue, P.O. Box 71, Anacortes, Wash.
Telephone: Cypress 4-2611.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 108,000-000 sq. ft. 1958 estimated production (3/8" basis) 98,000,000 sq. ft. Species: 85,000,000 sq. ft. Douglas fir; 13,000,000 sq. ft. hemlock.

SPECIAL PRODUCTS: 12,000,000 sq. ft. plastic or paper overlays; 12,000,000 sq. ft. Texture One-Eleven; 12,000,000 sq. ft. scarfed panels; 500,000 sq. ft. 2.4.1. panels; 6,000,000 sq. ft. hardboard faced.

EQUIPMENT: 2 lathes; 3 dryers; 1 cold press; 2 hot presses; maximum press size 60x120 in.

PERSONNEL: Earl V. Cheldelin, pres.; T. L. Bentley, sales & gen. mgr.; Eldon H. Shelly, production mgr.; Walter R. Huttula, plant supt.

SALES AGENTS: Arthur Schade, Anacortes Veneer, Inc., 13375 Watertown Plank Road, Elm Grove, Wis.; Frank Z. Edwards, 11 North Essex Street, Dover, N. J.

BINGEN VENEER & PLYWOOD CO.

P.O. Box 266, Bingen, Wash.
Telephone: White Salmon, HY 3-2983.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 25,000,000 sq. ft. 1958 estimated production (3/8" basis) 8,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe; 1 dryer; 1 hot press; maximum press size 48x96".

PERSONNEL: D. M. Stevenson, pres.

BUFFELEN WOODWORKING CO.

Plant Address: Lincoln Ave. & Taylor Way, Tacoma, Wash.
Telephone: Market 7-1191.
Home Address: P.O. Box 1383, Tacoma, Wash.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 36,000,000 sq. ft. 1958 estimated production (3/8" basis) 27,000,000 sq. ft. Species: Douglas fir and hardwoods.

SPECIAL PRODUCTS: 4,000,000 sq. ft. hardwood faced panels; 1,500,000 sq. ft. sliced veneer panels.

EQUIPMENT: 2 lathes; 1 slicer; 3 dryers; 1 cold press; 2 hot pressses; maximum press size 48x120 in.

PERSONNEL: J. P. Flannigan, pres.; L. O. Aaby, sales mgr.

CENTRALIA PLYWOOD, INC.

P.O. Box 449, Centralia, Wash.
Telephone: Pershing 6-7631.
Teletype: TWX CW 85.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 48,000,000 sq. ft. 1958 estimated production (3/8" basis) 40,000,000 sq. ft. Species: 34,000,000 sq. ft. Douglas fir; 5,000,000 sq. ft. hemlock; 1,000,-000 sq. ft. spruce.

SPECIAL PRODUCTS: 1,000,000 sq. ft. Texture One-Eleven; 1,000,000 sq. ft. 2.4.1. panels.

EQUIPMENT: 1 lathe; 1 dryer; 1 cold press; 1 hot press; maximum press size 48x96".

PERSONNEL: F. H. Heistuman, pres.; G. N. Raknes, gen. & sales mgr.; Eldon Pilker, plant supt.

SALES AGENTS: Fiddes-Moore & Co., 604 Executive Bldg., Portland 4, Ore.

COLUMBIA VENEER CO.

Plant Address: Kalama, Wash.
Home Address: Seattle, Wash.
Telephone: MA 4-7184.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 60,000,000 sq. ft. 1958 estimated production (3/8" basis) 55,000,000 sq. ft. Species: Douglas fir, maple, white pine, hemlock, white fir, birch, oak, walnut, Philippine mahogany.

SPECIAL PRODUCTS: 24,000,000 sq. ft. hardwood faced panels; 2,000,000 sq. ft. striated panels; 1,000,000 sq. ft. Texture One-Eleven; 100,000 sq. ft. 2.4.1. panels; 500,000 sq. ft. hardboard faced.

EQUIPMENT: 2 lathes; 2 dryers; 1 cold press; 1 hot press; maximum press size 48x96".

PERSONNEL: F. L. Johnson, pres. & gen. mgr.; Art Bergman, plant mgr. & supt.; Don Johnson, sales mgr.

SALES AGENTS: Columbia Plywood Co., 560 Skinner Bldg., Seattle, Wash.

ELLIOTT BAY MILL CO.

600 W. Spokane St., Seattle, Wash.
Telephone: MA 3-8080. Teletype: EL 609.

ANNUAL CAPACITY: (3/8-inch, 3 ply) 72,000,000 sq. ft. Species: Douglas fir; Philippine mahogany, birch, oak, walnut.

SPECIAL PRODUCTS: Hardwood faced panels; sliced veneer panels; hardwood veneer.

EQUIPMENT: 3 lathes; 1 slicer; 3 dryers; 1 cold press, 2 hot presses. Maximum press size 5x10'.

PERSONNEL: R. A. Neumann, pres. & gen. mgr.; L. R. Allan, sales mgr.; W. J. Miller, plant supt. & mgr.

ELMA PLYWOOD CORP.

Elma, Wash.
Telephone: Elma 2521.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 24,000,-000 sq. ft. 1958 estimated production (3/8-inch basis) 15,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 2 dryers, 1 cold press. Maximum press size 60x60 in.

PERSONNEL: L. O. Thompson, pres.; J. R. Ladley, gen. & sls. mgr.; H. J. Hoffman, plant supt.

EVERETT PLYWOOD & DOOR CORP.

P.O. Box 909, Everett, Wash.
Telephone: Alpine 2-2141.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 94,000,-000 sq. ft. 1958 estimated production (3/8-inch basis) 72,000,000 sq. ft. Species: 36,000,000 sq. ft. Douglas fir; 10,000,000 sq. ft. Philippine mahogany; 12,000,000 sq. ft. hemlock; 24,000,000 sq. ft. birch; 2,000,000 sq. ft. oak.

SPECIAL PRODUCTS: 36,000,000 sq. ft. hardwood faced panels; 2,000,000 sq. ft. brushed panels; 3,500,000 sq. ft. Texture One-Eleven; 2,000,000 sq. ft. scarfed panels; 5,500,000 sq. ft. sliced veneer panels.

EQUIPMENT: 2 lathes, 1 slicer, 4 dryers, 3 hot presses. Maximum press size 48x120 in.

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Electric Brakes and Clutches.

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Standard variable speed control.

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Roller & Silent Chains, Hy-Vo Chains, All Types of Sprockets, DRC & DSC Couplings, Morflex Couplings, Marine Couplings, Torque Limiters, Over Running Clutches.

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Spur, Bevel, Miter, Worm & Helical Gears, Speed Reducers.

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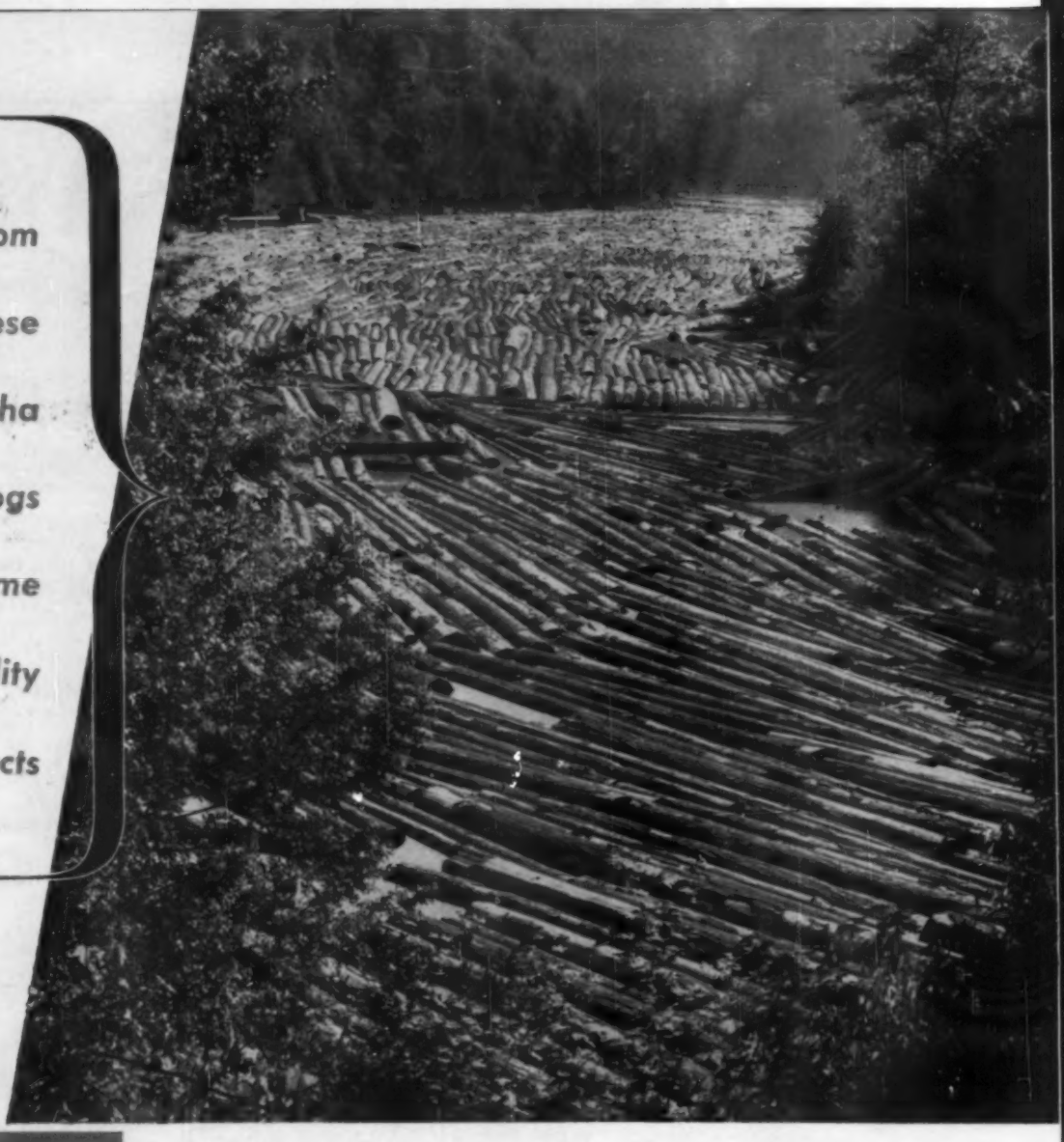
COMPLETE MACHINE SHOP

from these Menasha logs come quality products



What you see is a river borne cargo of logs enroute to our plywood plant from Menasha forest lands comprising millions of board feet of old growth Douglas fir.

What you don't see is Menasha's modern, efficient plywood mill with annual capacity of 84 million square feet ⅜" basis, and a streamlined stud mill with capacity of 36 million board feet yearly.

And what goes almost without saying is that *back* of perpetual supply, and *back* of quality production, lie deep-rooted Menasha policies:

Integrity of management . . . Square dealing with and dependable service to customers . . . Stability of ownership with millions of dollars invested in timber and in manufacturing facilities . . . An eye on tomorrow's markets through product research programs . . . And support to customers with sales and merchandising programs on Menasha products.

Interior and Exterior Plywood

Jumbo Marked Sheathing

Packaged Studs

DFPA TESTED QUALITY

Sales Agent: Menasha Sales Corporation, North Bend

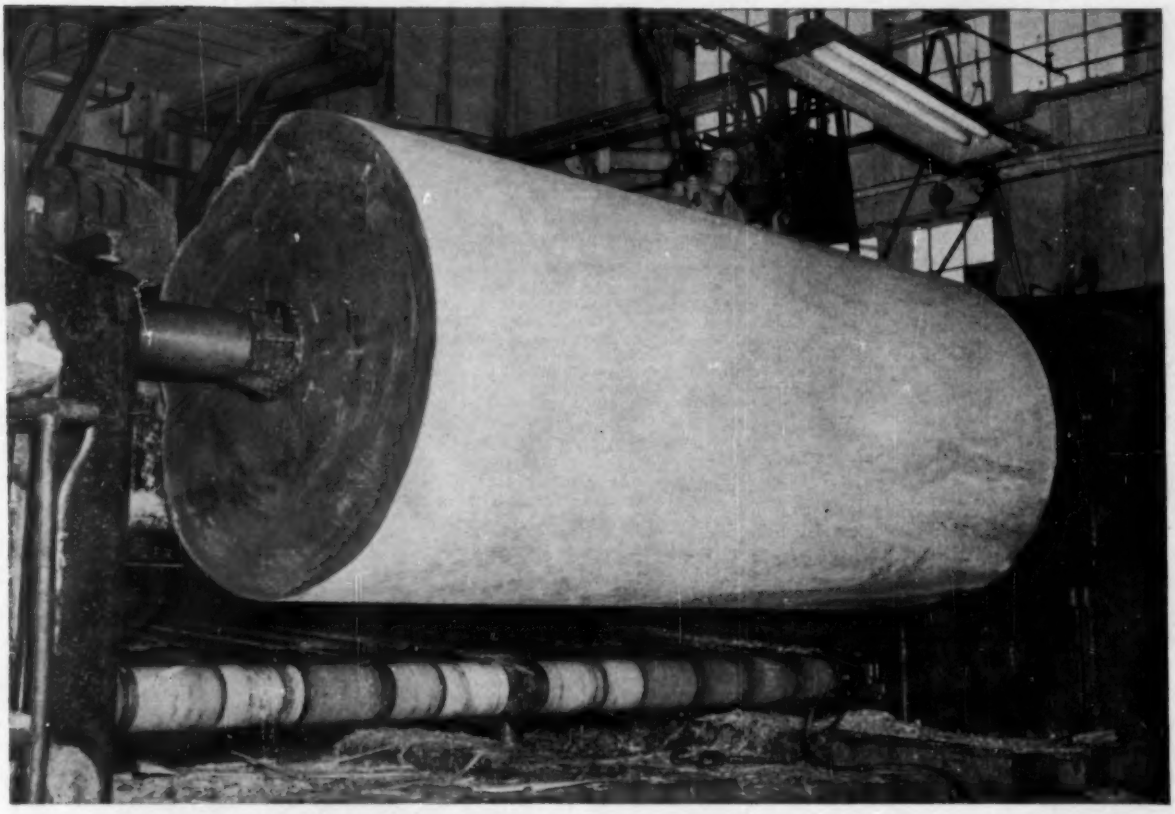
MENASHA PLYWOOD CORPORATION

North Bend, Oregon

Subsidiary of Menasha Wooden Ware Corp., Menasha, Wis.

cutting down giants to size . . . a specialty of

O-KNI-CO PROCESSED HEAVY DUTY VENEER KNIVES



Big logs, big production, exacting requirements . . . require machinery that stands up under the severest conditions. That's why for years Simpson Logging Co., Portland, Oregon, in order to produce its high quality veneer, has specified O-KNI-CO processed veneer knives. Made to order, like all O-KNI-CO veneer knives, they deliver day-in-day-out trouble free performance. Their bevel, their degree of hardness are exactly suited to the job required.

They are big money savers, too, because they stay sharp longer and require fewer re-grindings. Special high alloy steel is produced to our exacting metallurgical standards. Special heat-treating methods produce edges of absolute uniform hardness with unequalled resistance to wear, nicking or gapping. Precision grinding holds thicknesses to tolerances and parellelisms of plus or minus .001 producing the straightest edges, matchless cutting efficiency. Free illustrated bulletin available.

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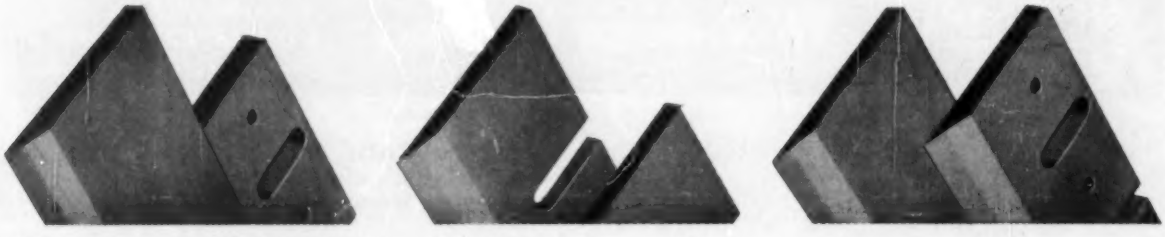


PERSONNEL: Brice Taylor, pres.; Keith J. Gunderson, gen. mgr.; Orville Douglas, plant mgr.
SALES AGENTS: Robinson Plywood and Timber Co.

FARWEST PLYWOOD CO.

Plant address: 624 E. 15th, Tacoma, Wash.
Telephone: Fulton 3-5533.
Home address: 2142 East D St., Tacoma, Wash.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 36,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 26,000,000 sq. ft. Species: 10,000,000 sq. ft. Douglas fir; 10,000,000 sq. ft. hemlock; 4,000,000 sq. ft. cottonwood; 2,000,000 sq. ft. other species.
SPECIAL PRODUCTS: 8,000,000 sq. ft. plastic or paper overlays.
EQUIPMENT: 1 lathe, 1 dryer, 2 hot presses. Maximum press size 48x96 in.
PERSONNEL: George F. Baum, pres. & gen. mgr.; Hill Woodard, sales mgr.; V. Flanigan, plywood fabrication.
SALES AGENTS: Rainier Plywood Co., Tacoma, Wash.

FORT VANCOUVER PLYWOOD CO.

Foot of 13th St. P.O. Box 289, Vancouver, Wash.
Telephone: BU 5-3655, Portland.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 110,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 100,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 300,000 sq. ft. Texture One-Eleven; 1,000,000 sq. ft. scarfed panels.
EQUIPMENT: 2 lathes, 4 dryers, 1 cold press, 2 hot presses. Maximum press size 60x120 in.
PERSONNEL: R. N. Kepner, pres.; V. A. Nyman, gen. & sls. mgr.; Elmer T. Brown, plant supt.
SALES AGENTS: Vancouver Plywood Co., 1010 Wash. St., Vancouver, Wash.

GEORGIA PACIFIC CORP.

P.O. Box 361, Olympia, Wash.
Telephone: Fleetwood 2-4801. Teletype: OL 32.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. Species: Douglas fir.
SPECIAL PRODUCTS: 10,000,000 sq. ft. medium and high density plastic or paper overlays; 12,000,000 sq. ft. hardwood faced panels; 6,000,000 sq. ft. brushed panels; 6,000,000 sq. ft. striated panels; 12,000,000 sq. ft. scarfed panels; 6,000,000 sq. ft. sliced veneer panels.
EQUIPMENT: 2 lathes, 3 dryers, 2 hot presses. Maximum press size 60x120 in.
PERSONNEL: R. B. Pamplin, pres.; R. E. Flowerree, Jr., vice pres. & gen. mgr.; W. H. Hunt, vice pres. of sls.; C. S. Leonardson, plant mgr.; F. W. Langfitt, Jr., sls. mgr.

HARBOR PLYWOOD CORP.

P.O. Box 940, Aberdeen, Wash.
Telephone: 4020. Teletype: 90.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 100,000,000 sq. ft. Species: Douglas fir, Philippine mahogany, white pine.
EQUIPMENT: 2 lathes, 3 dryers, 4 hot presses. Maximum press size 60x144 in.
PERSONNEL: Martin N. Deggeller, pres. & gen. mgr.; R. L. Stelzer, sls. mgr.; Wayne Hager, plant mgr.
SALES AGENTS: Harbord Mercantile, Port Dock, Aberdeen, Wash.; Harbor Plywood Corp., 1161 Ridge Avenue, S.W., Atlanta Ga.; 70 West Lake Street (Northlake), Chicago, Ill.; 511 Baymiller St., Cincinnati, O.; 8600 Sovereign Row, Dallas, Tex.; 6613 Supply Row, Houston, Tex.; 1001 East New York St., Indianapolis, Ind.; 2355 Dennis St., Jacksonville, Fla.; 2800 Supply Ave., Los Angeles, Calif.; 3095 Third St., San Francisco, Calif.; North 34th St. & Fremont, Seattle, Wash.; 802 North Rome Ave, Tampa, Fla.

HARDEL MUTUAL CORP.

Plant address: 1210 West Bay Drive, Olympia, Wash.
Telephone: Fleetwood 2-7563.
Home address: P.O. Box 365, Olympia, Wash.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 36,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 33,000,000 sq. ft. Species. Douglas fir and hemlock.
EQUIPMENT: 1 lathe, 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x96 in.
PERSONNEL: C. C. Willis, pres.; P. J. Watson, gen. & sls. mgr.; Ellis Johnson, plant supt.
SALES AGENTS: Pacific Mutual Door Co., P.O. Box 1589, Tacoma, Wash.

HOQUIAM PLYWOOD CO., INC.

P.O. Box 737 (Woodlawn Addition), Hoquiam, Wash.
Phone: 930.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 30,000,000 sq. ft. Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 48x96 in.
PERSONNEL: Herbert Fovargue, pres.; George F. Hannaford, gen. mgr.; Peter J. Majar, office mgr.; Eric Pentilla, supt.

INTERNATIONAL PAPER CO., Long-Bell Division

P.O. Box 1079, Longview, Wash.
Telephone: Hamilton 3-2110. Teletype: 375.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 48,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 44,000,000 sq. ft. Species: 40,900,000 sq. ft. Douglas fir; 1,000,000 sq. ft. Philippine mahogany; 2,000,000 sq. ft. birch; 100,000 sq. ft. oak.
SPECIAL PRODUCTS: 100,000 sq. ft. plastic or paper overlays; 3,100,000 sq. ft. hardwood faced panels; 250,000 sq. ft. Texture One-Eleven; 3,000 sq. ft. hardboard faced; 200,000 sq. ft. cut up items.
EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 1 hot press. Maximum press size 60x120 in.
PERSONNEL: J. D. Leland, vice pres.; H. G. Kelsey, gen. mgr. western operations; E. H. Houston, gen. sls. mgr.; T. A. Deal, br. mgr.; F. L. Foval, asst. gen. sls. mgr.; C. N. Babb, plant supt.; F. N. McCullah, plywood sls.
SALES AGENTS: International Paper Co., Long-Bell Division—sales offices in all major cities.

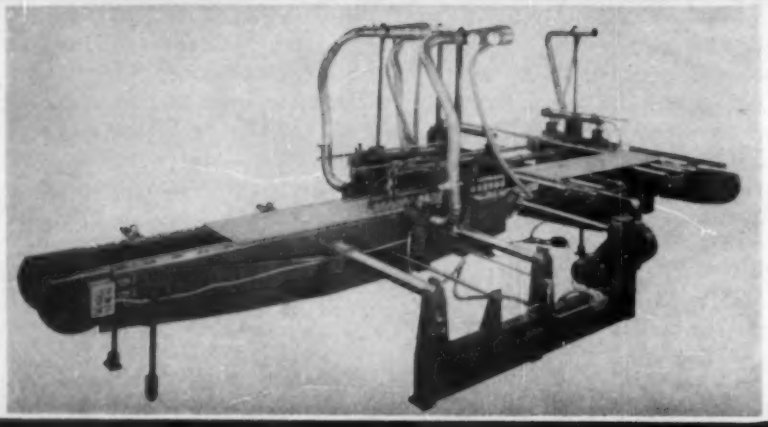
LACEY PLYWOOD CO., INC.

Lacey, Wash.
Phone: Olympia FL 7-9357.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 35,000,000 sq. ft. Douglas fir.

NEW Jenkins Right Angle Transfer Unit

New Combination of Trim Saw . . . Transfer Table and Multiple Cut-Up Machine

Jenkins Units Feature Continuous Operation



Automatically

- Trims
- Splits
- Squares
- Transfers

Jenkins Woodworking Machinery manufactured by KOHLER-JOA CORP. Sheboygan Falls, Wisconsin

PARTS and SERVICE

CASCADE SAW & MACHINERY
P. O. Box 179
Chehalis, Washington

CASCADE SAW & TOOL LTD.
314 Columbia Street, East
New Westminster, B. C.

EQUIPMENT: 1 dryer, 1 cold press.
PERSONNEL: T. Herrmann, pres.; R. A. Matott, gen. mgr.; M. J. Lewis, plant supt.
SALES AGENTS: Monarch Door & Plywood Sales Co.; Lacey Plywood Sales.

LYLE, DONALD W., INC.

951 Canal St., Tacoma, Wash.
Telephone: Fulton 3-1711.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 36,000,000 sq. ft. Species: Douglas fir and hemlock.
SPECIAL PRODUCTS: All industrial grades; cut to special sized panels, tongue & groove panels; cross grain panels.
EQUIPMENT: 2 lathes, 1 dryer, 4 hot presses.
PERSONNEL: Donald Lyle, pres.

MT. BAKER PLYWOOD INC.

2929 Roeder Avenue, Bellingham, Wash.
Telephone: RE 3-3960. Teletype: TWX 93.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 50,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 40,000,000 sq. ft. Species: 6,250,000 sq. ft. Douglas fir; 250,000 sq. ft. Philippine mahogany; 20,000,000 sq. ft. cottonwood; 12,000,000 sq. ft. birch; 1,000,000 sq. ft. oak; 500,000 sq. ft. walnut.
SPECIAL PRODUCTS: 13,750,000 sq. ft. hardwood faced panels; 125,000 sq. ft. brushed panels; 500,000 sq. ft. scarfed panels.
EQUIPMENT: 2 lathes, 2 dryers, 2 hot presses. Maximum press size 48x96 in.
PERSONNEL: Syl Eastman, pres.; Fred M. Phillips, Jr., gen. mgr.; Charles Q. Jackson, plant supt.

NORTH PACIFIC PLYWOOD, INC.

1549 Dock Street, Tacoma, Wash.
Telephone: BR 2-1197.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 50,000,000 sq. ft. Species: 45,000,000 sq. ft. Douglas fir; 500,000 sq. ft. Philippine mahogany; 2,500,000 sq. ft. birch.
SPECIAL PRODUCTS: 3,000,000 sq. ft. hardwood faced panels; 250,000 sq. ft. brushed panels; 100,000 sq. ft. Texture One-Eleven.
EQUIPMENT: 1 lathe, 3 dryers, 1 cold press, 1 hot press. Maximum press size 60x120 in.
PERSONNEL: Vincent LeVeille, pres.; George Jaynes, gen. sls., plant mgr. & plant supt.
SALES AGENTS: Vancouver Plywood Co., Vancouver, Wash.

NORTHWEST DOOR CO.

P.O. Box 1477, Tacoma, Wash.
Telephone: Fulton 3-3421. Teletype: TA 051 & TA 052.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 60,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 60,000,000 sq. ft. Species: Douglas fir, Philippine mahogany, white pine, hemlock, spruce, birch, oak.
SPECIAL PRODUCTS: 25,000,000 sq. ft. hardwood faced panels; 5,000,000 sq. ft. Texture One-Eleven; 1,000,000 sq. ft. 2.4.1. panels.
EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 1 hot press.
PERSONNEL: H. E. Tenzler, pres.; R. G. Walters, exec. vice pres. & gen. mgr.; R. W. Bright, sls. mgr.; Art Foss, plant mgr.
SALES AGENTS: Northwest Door and Plywood Sales Co., Tacoma, Wash.

PENINSULA PLYWOOD CORP.

439 Marine Drive, Port Angeles, Wash.
Telephone: GL 7-4421. Teletype: PN 83.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 72,000,000 sq. ft. Species: 57,500,000 sq. ft. Douglas fir; 6,500,000 sq. ft. hemlock; 8,000,000 sq. ft. spruce.
EQUIPMENT: 2 lathes, 3 dryers, 3 hot presses. Maximum press size 60x120 in.
PERSONNEL: Clarence Flatau, pres.; Oliver Latvala, gen. mgr.; Herrick Fox, sls. mgr.; Clifford Kirk, plant supt.

PUGET SOUND PLYWOOD, INC.

230 East F St., Tacoma 2, Wash.
Telephone: Market 7-4111.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 72,000,000 sq. ft. Species: Douglas fir; 760,000 sq. ft. birch; 330,000 sq. ft. knotty pine.
SPECIAL PRODUCTS: 6,000,000 sq. ft. hardwood faced panels; 1,000,000 sq. ft. brushed panels; 2,000,000 sq. ft. Texture One-Eleven.
EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 2 hot presses. Maximum press size 60x120 in.
PERSONNEL: Alfred Anderson, pres.; John H. Martinson, gen. mgr.; Ray A. Johnson, sls mgr.; A. L. Shepro, plant supt.
SALES AGENTS: Russell B. Wiscomb, 2700 Simpson, Evanston, Ill.; Bowen-Duvall, Empire State Bldg., New York, N. Y.; E. B. Meyercord, P.O. Box 822, Mobile, Ala.

ST. PAUL & TACOMA LUMBER CO., Plywood Department Division of St. Regis Paper Co.

Foot of Jefferson St., Olympia, Wash.
Telephone: Fleetwood 2-0501.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 90,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 75,000,000 sq. ft. Species: 83,000,000 sq. ft. Douglas fir; 5,000,000 sq. ft. hemlock; 2,000,000 sq. ft. birch.
SPECIAL PRODUCTS: 6,000,000 sq. ft. plastic or paper overlays; 2,000,000 sq. ft. hardwood faced panels; 1,000,000 sq. ft. brushed panels; 2,000,000 sq. ft. Texture One-Eleven; 3,000,000 sq. ft. scarfed panels; 750,000 sq. ft. 2.4.1. panels.
EQUIPMENT: 3 lathes, 4 dryers, 4 hot presses. Maximum press size 48x96 in.
PERSONNEL: E. G. Griggs II, pres.; Corydon Wagner, gen. mgr.; William R. Garnett, sls. mgr.; Arnold Koutonen, plant mgr.; Fred Peterson, plant supt.

SIMPSON LOGGING CO.

McCleary, Wash.
Telephone: 2300. Teletype: 41.
ANNUAL CAPACITY: (3/8-inch, 3-ply) 68,750,000 sq. ft. 1958 estimated production (3/8-inch basis) 66,000,000 sq. ft. Species: 64,975,000 sq. ft. Douglas fir; 195,000 sq. ft. Philippine mahogany; 3,220,000 sq. ft. birch; 360,000 sq. ft. oak.

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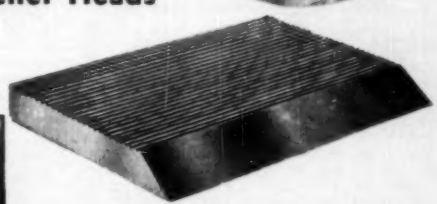

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Groovers • Shiplap Heads • Scarfing Heads

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Cascade Saw & Machinery
P.O. Box 179
Chehalis, Washington

Cascade Saw & Tool Ltd.
314 Columbia St. East
New Westminster, B. C.

SPECIAL PRODUCTS: Hardwood faced panels, Texture One-Eleven, scarfed panels, 2.4.1. panels, hardboard faced panels, sliced veneer panels.

EQUIPMENT: 2 lathes, 3 dryers, 1 cold press, 2 hot presses. Maximum press size 48x120 in.

PERSONNEL: H.W. McClary, vice pres.; H. N. Johns, mgr.; R. H. Fletcher, sls. mgr.; D. J. Carstairs, Jr., plant mgr.; Henry Hillman, plant supt.

SIMPSON LOGGING CO.

Olympia, Wash.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 50,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 dryers, 1 cold press, 1 hot press. Maximum press size 48x120 in.

PERSONNEL: H. W. McClary, vice pres.; H. N. Johns, mgr.; R. H. Fletcher, sls. mgr.; Frank Abbott, plant supt.

SIMPSON LOGGING CO.

Shelton, Wash.
Telephone: Harrison 6-3381.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 27,500,000 sq. ft. 1958 estimated production (3/8-inch basis) 22,000,000 sq. ft.. Species: Douglas fir.

SPECIAL PRODUCTS: 500,000 sq. ft. high and medium density plastic or paper overlays.

EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 60x120 in.

PERSONNEL: H. W. McClary, vice pres.; H. N. Johns, mgr.; R. H. Fletcher, sls. mgr.; John Rebman, plant supt.; J. H. Gilliland, plant mgr.

STEVENSON CO-PLY, INC.

Stevenson, Wash.
Telephone: 3512.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 45,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe, 1 dryer, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Frank C. Lahmann, pres.; J. H. Waters, gen. mgr.

SALES AGENTS: Harbor Plywood Corp., Aberdeen, Wash.

THREE RIVERS PLYWOOD & TIMBER CO.

Darrington, Wash.
Telephone: Hemlock 6-3461; 6-3471; 6-3481; Everett Alpine 2-5701.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 46,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 38,000,000 sq. ft. Species: 12,000,000 sq. ft. Douglas fir; 28,000,000 sq. ft. hemlock.

EQUIPMENT: 2 lathes, 1 dryer, 1 hot press. Maximum press size 48x96 in.

PERSONNEL: Bob Jones, pres.; Leo Cummins, gen. & sls. mgr.; George Morris, plant supt.

UNITED STATES PLYWOOD CORP.

Plant address: 4025 13th W., Seattle, Wash.
Telephone: AT 3-8800.
Home address: 55 West 44th St., New York, N.Y.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 65,000,000 sq. ft. Species: 45 000,000 sq. ft. Douglas fir; 5,000,000 sq. ft. spruce; 1,000,000 sq. ft. white pine; 5,000,000 sq. ft. hemlock; 5,000,000 sq. ft. birch; 4,000,000 sq. ft. other species.

SPECIAL PRODUCTS: 10,000,000 sq. ft. plastic or paper overlays; 45,000,000 sq. ft. hardwood faced panels; 5,000,000 sq. ft. striated panels; 5,000,000 sq. ft. scarfed panels.

EQUIPMENT: 2 lathes, 2 slicers, 5 dryers, 4 hot presses. Maximum press size 60x120 in.

PERSONNEL: S. W. Antoville, chairman of board, New York, N. Y.; Gene C. Brewer, pres.; O. H. Schrader, Jr., gen. mgr.; Monroe Pollack, sls. mgr.; Merle Miller, plant supt.

SALES AGENTS: Offices in all major cities in U. S. and Canada. See listing of Anderson, Calif., plant.

WASHINGTON PLY. CO., INC.

Plant address: Lowell, Wash.
Home address: P.O. Box 746, Everett, Wash.
Telephone: AL 9-5131.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 35,000,000 sq. ft. Species: 25,000,000 sq. ft. Douglas fir; 6,000,000 sq. ft. cottonwood; 4,000,000 sq. ft. hemlock.

SPECIAL PRODUCTS: 3,600,000 sq. ft. plastic or paper overlays; 2,000,000 sq. ft. cut up items.

EQUIPMENT: 2 lathes, 3 dryers, 2 hot presses. Maximum press size 60x120 in.

PERSONNEL: R. E. Walton, pres.; Russ Stormo, sls. mgr.; Herb Yorkston, gen. mgr.; Gordon Vincent, plant mgr.; Basil Funk, plant supt.

SALES AGENTS: Williams Plywood.

WEST COAST PLYWOOD CO.

Plant address: Port Area, Aberdeen, Wash.
Telephone: Hoquiam 1840.
Home address: P.O. Box 1180, Aberdeen, Wash.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. 1958 estimated production (3/8-inch basis) 65,000,000 sq. ft. Species: Douglas fir.

SPECIAL PRODUCTS: 5,000,000 sq. ft. plastic or paper overlays; 5,000,000 sq. ft. Texture One-Eleven.

EQUIPMENT: 3 lathes, 3 dryers, 4 hot presses. Maximum press size 72x144 in.

PERSONNEL: A. R. Wuest, pres. & gen. mgr.; A. R. Welch, plant mgr.; Don Stubberfield, plant supt.

WEYERHAEUSER TIMBER CO.

Plant address: Longview, Wash.
Telephone: Hamilton 5-2150.
Home address: Tacoma, Wash.

ANNUAL CAPACITY: (3/8-inch, 3-ply) 75,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 2 lathes, 2 dryers, 1 cold press, 2 hot presses. Maximum press size 60x120 in.

PERSONNEL: W. H. Robertson, plant mgr.; O. F. Weld, sales mgr.; L. H. Caplen, plant supt.

SALES AGENTS: Weyerhaeuser Sales Co., Box 1337, Tacoma 1, Wash.

WEYERHAEUSER TIMBER CO.

Snoqualmie Falls, Wash.
Under construction.

CROSS REFERENCE TO HARDWOOD and OTHER SOFTWOOD PRODUCERS

HARDWOOD PLYWOOD: Aberdeen Plywood & Veneers, Inc., Aberdeen, Wash.; Bate Lumber Co., Merlin, Ore.; Birchwood, Inc., Maywood, Calif.; Brookings Plywood Corp., Brookings, Ore.; Buffelen Woodworking Co., Tacoma, Wash.; Columbia Veneer Co., Kalama, Wash.; Diamond Lumber Co., Tillamook, Ore.; Elliott Bay Mill Co., Seattle, Wash.; Everett Plywood & Door Corp., Everett, Wash.; Farwest Plywood Co., Tacoma, Wash.; Harbor Plywood Corp., Aberdeen, Wash.; International Paper Co., Longview, Wash.; International Paper Co., Gardiner, Ore.; Klamath Hardwoods, Inc., Klamath Falls, Ore.; Mt. Baker Plywood, Inc., Bellingham, Wash.; Multi-Use Panel Corp., Eugene, Ore.; North Pacific Plywood, Inc., Tacoma, Wash.; Northwest Door Co., Tacoma, Wash.; Plywood Mfg. Co. of Calif. Inc., Torrance, Calif; Polson Plywood Co., Polson, Mont.; Puget Sound Plywood, Inc., Tacoma, Wash.; Roddiscraft, Inc., Arcata, Calif.; Roseburg Lumber Co., Plant No. 1, Dillard, Ore.; St. Paul & Tacoma Lumber Co., Olympia, Wash.; Simpson Logging Co., Portland, Ore.; Simpson Logging Co., McCleary, Wash.; Southern Oregon Plywood, Inc., Grants Pass, Ore.; Tyre Plywood Mfg. Co., Alhambra, Calif.; U. S. Plywood Corp., Seattle, Wash.; Washington Plywood Co., Inc., Lowell, Wash.; Willamette Plywood Corporation, Aumsville, Ore.

CEDAR PLYWOOD: Potlatch Forests, Inc., Lewiston, Ida.

LARCH PLYWOOD: Polson Plywood Co., Polson, Mont.; Potlatch Forests, Inc., Lewiston, Ida.

SPRUCE PLYWOOD: Astoria Plywood Corp., Astoria, Ore.; Centralia Plywood, Inc., Centralia, Wash.; Columbia Veneer Co., Kalama, Wash.; Diamond Lumber Co., Tillamook, Ore.; Grants Pass Plywood Inc., Grants Pass., Ore.; Northwest Door Co., Tacoma, Wash.; Polson Plywood Co., Polson, Mont.; S & K Limited, Kelowna, B. C.

REDWOOD PLYWOOD: Simpson Redwood Co., Eureka, Calif.

WHITE FIR PLYWOOD: Bate Lumber Co., Merlin, Ore.; Columbia Veneer Co., Kalama, Wash.; Oroply Corp., Oroville, Calif.; U. S. Plywood Corp., Anderson, Calif.

HEMLOCK PLYWOOD: Centralia Plywood Inc., Centralia, Wash.; Columbia Veneer Co., Kalama, Wash.; Dwyer Lumber & Plywood Co., Portland, Ore.; Everett Plywood & Door Corp., Everett, Wash.; Farwest Plywood Co., Tacoma, Wash.; Hardel Mutual Plywood Corp., Olympia, Wash.; Northwest Door Co., Tacoma, Wash.; Peninsula Plywood Corp., Port Angeles, Wash.; Roseburg Lumber Co., Dillard, Ore.; St. Paul & Tacoma Lbr. Co., Olympia, Wash.; Three Rivers Plywood & Timber Co., Darrington, Wash.; U. S. Plywood Corp., Seattle, Wash.; Washington Ply. Co., Inc., Lowell, Wash.; Willamette Valley Lumber Co., Foster and Dallas, Ore.

PINE PLYWOOD: Astoria Plywood Corp., Astoria, Ore.; Bate Lumber Co., Merlin, Ore.; Columbia Veneer Co., Kalama, Wash.; Diamond Lumber Co., Tillamook, Ore.; Harbor Plywood Corp., Aberdeen, Wash.; International Paper Co., Weed, Calif.; Klamath Hardwoods, Inc., Klamath Falls, Ore.; Northwest Door Co., Tacoma, Wash.; Polson Plywood Co., Polson, Mont.; Potlatch Forests, Inc., Lewiston, Ida.; Puget Sound Plywood, Inc., Tacoma, Wash.; Roseburg Lumber Co., Plant No. 1, Dillard, Ore.; Simpson Logging Co., Portland, Ore.; Southern Oregon Plywood, Inc., Grants Pass, Ore.; S & K Limited, Kelowna, B. C.; U. S. Plywood Corp., Anderson, Calif. and Seattle, Wash.

SPECIALTY PLANTS

C. P. I. VENEERS

Central Building, Seattle, Wash.
Telephone: Main 2-4240

PRODUCT: Specialty faced veneers.

COLUMBIA LAMINATING CO.

3910 N. Suttle Road, North Portland, Ore
Telephone: AV 6-3688.

SPECIAL PRODUCTS: Modular structural panels; solid core institutional doors; custom hot press overlays; plywood specialties.

EQUIPMENT: 2 hot presses.

PERSONNEL: Theodore Nicolai, owner; S. L. Michael, gen. mgr.

GENERAL VENEER MANUFACTURING CO.

8652 Otis Street, P.O. Box 271, South Gate, Calif.
Telephone: LOrain 4-2661. Teletype: LA 1313.

SPECIAL PRODUCTS: Architectural hardwood and softwood plywood; aircraft plywood; flush doors; cupboard and cabinet doors; balsa wood; seven other custom specialties.

EQUIPMENT: 5 hot presses, 4 cold presses, 2 high frequency machines, 1 plycone machine. Maximum press sizes 60x204 in. and 74x150 in.

PERSONNEL: D. H. DeWitt, pres.; E. J. Vivian, dir. of sls.; R. V. DeWitt, plant mgr.

HYGRADE HARDWOOD VENEERS

Home address: P.O. Box 204, Olympia, Wash.
Plant address: Lilly Road, Olympia, Wash.
Telephone: FL 6-8412.

SPECIAL PRODUCTS: Spliced to size birch, red oak, white oak, walnut, cherry, maple, ash, knotty pine veneers.

EQUIPMENT: 3 splicers, 2 clippers, 2 jointers.

PERSONNEL: Elmer Johnson, pres.

IDAHO VENEER CO.

Post Falls, Ida.
Telephone: Murray 2-3981.

SPECIAL PRODUCTS: Sliced knotty Idaho white pine veneer, knotty Idaho red cedar, clear white pine, vertical grain larch and vertical grain cedar; rotary cut veneers in pine, fir, larch, hemlock, dry as well as green; random width stock also spliced; also manufacturers of lumber.

EQUIPMENT: 1 slicer, 1 lathe, 1 dryer.

PERSONNEL: John F. Gregor, pres. & gen. mgr.; Leonard A. Malloy, sls. mgr. & plant mgr.; Robert W. Malloy, plant supt.

SALES AGENCIES: Home office, Post Falls, Ida.

PLYWOOD FABRICATORS, INC.

Box 1, Redwood Valley, Calif.

RAINIER PLYWOOD CO.

Home address: 2142 East D, Tacoma, Wash.
Plant address: 624 East 15, Tacoma, Wash.
Telephone: Fulton 3-5533.

SPECIAL PRODUCTS: Plastic overlay "Richlite Overlay."

EQUIPMENT: Plastic impregnating equipment.

PERSONNEL: George F. Baum, pres.; Richard Rose, gen. & chemical mgr.

SALES AGENCIES: Rainier Plywood Co.

SPLICED VENEERS, INC.

Home address: P.O. Box 1110, Olympia, Wash.
Plant address: North Washington & C St., Olympia, Wash.
Telephone: Fleetwood 2-9821.

SPECIAL PRODUCTS: Custom splicing of specialty and hardwood veneers to order.

EQUIPMENT: 1 jointer, 1 splicer, 1 clipper.

PERSONNEL: Paul E. Smith, pres.

STRUCTURAL LAMINATES

720 S.E. Alger, Beaverton, Ore.
Telephone: Mitchell 4-2165.

SPECIAL PRODUCTS: Sheathing plywood 4x4 and 5x5, cut to size, industrial, hardboard faced and structural lumbercore panels, Douglas fir, spruce, hemlock. Fabricated beams & panels.

EQUIPMENT: Specialized veneer drying equipment. 5x10 presss, general layup equip.

PERSONNEL: C. D. Johnson, pres.; Chas. R. Wilson, sls. mgr.

SUPERIOR SPLICED VENEERS, INC.

Home address: P.O. Box 5931, Milwaukie 22, Ore.
Plant address: 13345 S.E. Ambler Rd., Milwaukie 22, Ore.
Telephone: Olive 4-8641.

SPECIAL PRODUCTS: Custom splicing domestic and foreign veneers up to and including 10 ft. lengths.

EQUIPMENT: 2 splicers, 1 jointer, 1 clipper, 1 size saw, 1 plate dryer.

PERSONNEL: Adolph W. Gauthier, pres. & gen. mgr.

TIMBERLINE, INC.

P.O. Box 502, Crescent City, Calif.
Telephone: 2941.

SPECIAL PRODUCTS: Vertical grain fir; sliced Pacific oak; madrona, myrtle. Flat cut or vertical redwood.

EQUIPMENT: 1 slicer, 1 dryer.

PERSONNEL: Peter H. Koehler, gen. mgr.; Raymond Stiles, plant supt.

SALES AGENCIES: C. P. I. Veneers, Inc., Central Bldg., Seattle, Wash., and Weatherly Bldg., Portland, Ore.

WELSH PLYWOOD CORP.

1228 N. Hollywood, Memphis, Tenn.
Telephone: FA 3-8521. Teletype: ME 499.

SPECIAL PRODUCTS: Plywood wall panels; "PLY WELSH" prefinished wall panels; "PLY WELSH" prefinished moldings; V-grooved plywood; domestic and imported plywood.

EQUIPMENT: Bruce patented process machinery; molding prefinish equipment; complete molding plant & dry kiln.

PERSONNEL: J. R. Welsh, pres.; C. M. Cooper, vice pres.; T. J. Welsh, sls. mgr.; Robert Brown, plant supt.

YOUNG, WILLARD V., CO.

P.O. Box 115, Tacoma & Hubbard Sts., Sumner, Wash.
Telephone: University 3-6323. Teletype: Sumner 149.

SPECIAL PRODUCTS: Fabrication of fir plywood, hardboard, chipboard, etc., to custom sizes.

PERSONNEL: Michel Pasquier, pres.; Charles L. Pasquier, gen. mgr.

WESTERN VENEER PLANTS

BRITISH COLUMBIA

BRITISH COLUMBIA FOREST PRODUCTS LTD.

Plant Address: Youbou, B. C.
Home Address: 995 West 6th Avenue, Vancouver 9, B. C.

ANNUAL CAPACITY: (3/8-inch basis) 500,000,000 sq. ft.

EQUIPMENT: 2 lathes.

PERSONNEL: C. D. Dickey, Jr., pres.; T. D. R. Humphreys, mgr.; W. H. Pumfrey, sales mgr; C. W. Potter, plant supt.

FULLERTON VENEER & PLYWOOD CO., LTD.

P.O. Box 286, North Vancouver, B. C.

PERSONNEL: E. F. Jordan, plant mgr.

MT. BAKER PLYWOOD, LTD.

P.O. Box 40, New Westminster, B. C.
Telephone: LA 2-5788.

ANNUAL CAPACITY: (3/8-inch basis) 120,000,000 sq. ft. Species: Douglas fir.

EQUIPMENT: 1 lathe.

PERSONNEL: Clarence Flatau, pres.; B. H. Gunning, vice pres. & managing dir.; V. R. Stark, plant mgr.

SAVONA TIMBER CO., LTD.

Savona, B. C.

PERSONNEL: A. A. Thomson, gen. mgr.

CALIFORNIA

CAL-ORE VENEER INC.

Rt. 1 Box 631, Crescent City, Calif.
Telephone: 7761.

ANNUAL CAPACITY: (3/8-inch basis) 60,000,000 sq. ft. Species: 55,000,000 sq. ft. Douglas fir; 5,000,000 sq. ft. spruce.

EQUIPMENT: 1 lathe.

PERSONNEL: F. A. Johnson, pres.; Freeman Tollefson, res. mgr.; L. V. St. Onge, sls. mgr.; Ed Knowlton, plant foreman.

SALES AGENTS: Plywood & Veneer Sales Co., Grants Pass, Ore.

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Telephone: TU 5-6291

GUALALA VENEER CO.

Gualala, Calif.
Telephone: Tuxedo 4-3523.
ANNUAL CAPACITY: (⅛-inch basis) 40,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: F. E. Fogelberg, pres.; R. M. Hoskins, gen. & sls. mgr.

HOOPA VENEER CO.

Hoopa, Calif.
Telephone: 7557.
ANNUAL CAPACITY: (⅛-inch basis) 175,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Sam K Arness, pres. & gen. mgr.; John Manning, plant mgr.

MEDFORD VENEER & PLYWOOD CORP., Crescent City Division

Plant address: Elk Valley Road, Crescent City, Calif.
Telephone: 10704.
Home address: P.O. Box 507 (1103 N. Riverside), Medford, Ore.
ANNUAL CAPACITY: (⅛-inch basis) 198,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Al Coble, plant supt., Crescent City Div.; Vern Ego, log mgr.
SALES AGENTS: Western Forest Sales Corp., Suite 710 Granada Bldg. (P.O. Box 1116), Santa Barbara, Calif.

ORLEANS VENEER & LUMBER CO.

Plant address: Orleans, Calif.
Home address: P.O. Box 427, Arcata, Calif.
Telephone: Vandyke 2-0335. Teletype: 94.
ANNUAL CAPACITY: (⅛-inch basis) 180,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: A. Rochlin, pres.; Larry Rochlin, gen. mgr.; Wilbur Butts, plant mgr.

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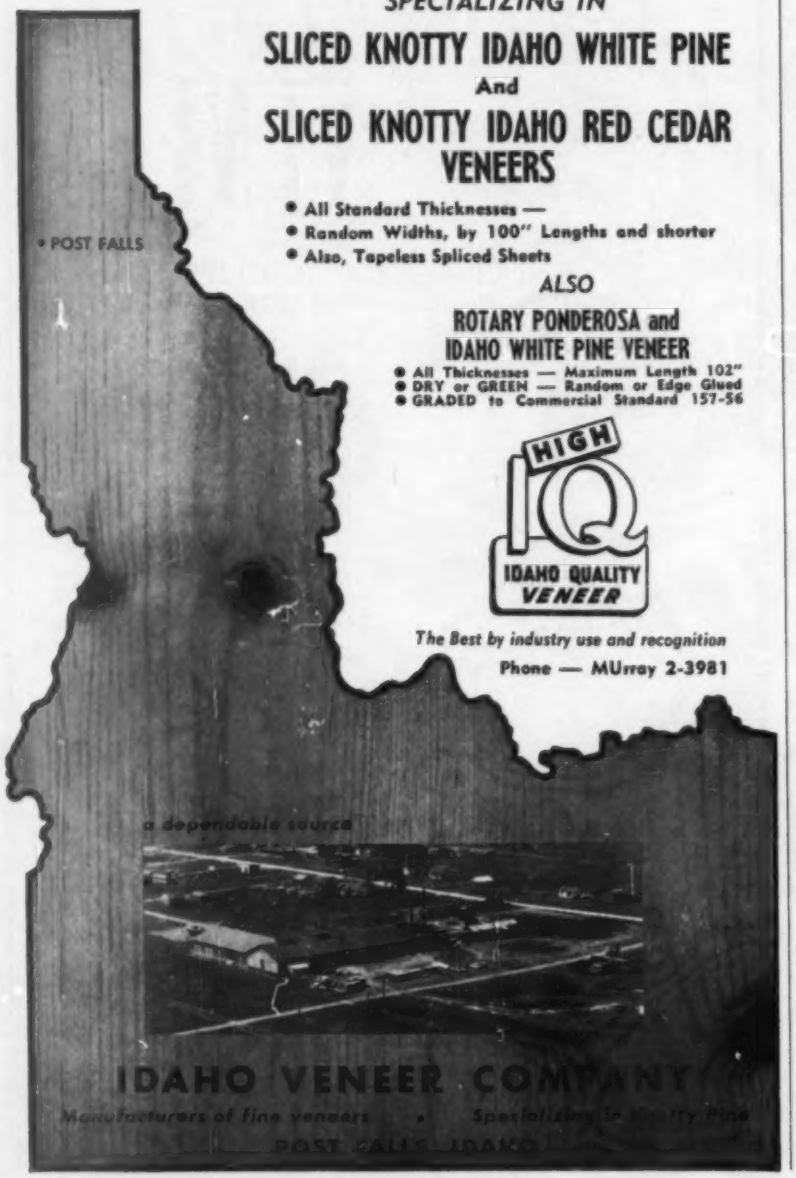

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THE PACIFIC COAST CO.

P.O. Box 248, Leggett, Calif.
Telephone: 480.
ANNUAL CAPACITY: (⅛-inch basis) 180,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Hugh J. Jacks, pres.; A. W. Agnew, gen. mgr. & vice pres.; George W. Karlson, prod. mgr.; Wayne Calder, Jr., plant supt.

PLYWOOD CORPORATION OF AMERICA, Manchester Veneer Division

Plant address: Manchester, Calif.
Home address: 8910 Amelia St., Oakland, Calif.
Telephone: Lockhaven 9-0261.
ANNUAL CAPACITY: (⅛-inch basis) 24,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Wally Bushberg, pres.; Norman Bushberg, vice pres. & gen. mgr.; Jack Harmon, plant supt.; L. F. Lane, office mgr.; Gloria Bushberg, sec.-treas.

ROCHLIN VENEER & PLYWOOD CO.

Plant address: Willow Creek, Calif.
Home address: P.O. Box 427, Arcata, Calif.
Telephone: Vandyke 2-0335. Teletype: Arcata 94.
ANNUAL CAPACITY: (⅛-inch basis) 180,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: A. Rochlin, pres.; Larry Rochlin, gen mgr.; Jim Kinsey, plant mgr.

SIMPSON REDWOOD CO.

Plant address: Klamath, Calif.
Home address: Arcata, Calif.
Telephone: Hillside 3-4591 (Eureka, Calif.).
ANNUAL CAPACITY: (⅛-inch basis) 240,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Gordon Manary, vice pres.; J. M. Elliott, plant mgr.; Coady Craddick, plant supt.

TRINITY ALPS LUMBER CO.

Hayfork, Calif.
ANNUAL CAPACITY: (⅛-inch basis) 81,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: C. T. Gray, American Forest Prod., pres.; Ott Evje, sls. mgr.; Tom Fleming, plant supt.; Harry B. Oatman, plant mgr.
SALES AGENTS: Tarter Webster & Johnson, 2740 Hyde St., San Francisco, Calif.

UNION LUMBER CO.

Plant address: Fort Bragg, Calif.
Home address: 620 Market St., San Francisco, Calif.
Telephone: Yorktown 4-5651.
ANNUAL CAPACITY: (⅛-inch basis) 100,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: C. Russell Johnson, pres.; John H. Gray, gen. mgr.; Sherman A. Bishop, sls. mgr.; H. Pierson Plummer, plant mgr.; Howard H. Hyde, plant supt.

WEST COAST VENEER CO.

New No. 101 Highway, P. O. Box 81, Crescent City, Calif.
Telephone: 6814.
ANNUAL CAPACITY: (⅛-inch basis) 108,000,000 sq. ft. Douglas fir.
EQUIPMENT: 2 lathes; 1 slicer.
PERSONNEL: Axel I. Lund, pres.; E. Melvin Lund, logging mgr.; Orvil Morris, plant supt.; Robert Hatley, 2nd shift supt.; Donald Hemmingsen, master mechanic.

WILLAMETTE PLYWOOD CORP.

Plant address: Happy Camp, Calif.
Telephone: 304. Teletype: 79.
Home address: Aumsville, Ore.
ANNUAL CAPACITY: (⅛-inch basis) 120,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Harold Leevers, pres.; R. G. Evans, sls. mgr.; M. L. Hopkins, plant mgr.; Victor Dusenberry, plant supt.

YREKA VENEER, INC.

Happy Camp, Calif.
Telephone: 1-W.
ANNUAL CAPACITY: (⅛-inch basis) 120,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Ray O. Alder, pres.; Eric Bork, plant supt.

OREGON

BENTON TIMBER PRODUCTS CORP.

Plant address: P.O. Box 506, Philomath, Ore.
Telephone: Waverly 9-3017.
ANNUAL CAPACITY: (⅛-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer.
PERSONNEL: Donald E. Johnson, pres., gen. mgr. & sls. mgr.; Doral Daubenspeck, plant mgr. & supt.

BENTON VENEER CORP.

P.O. Box 587, Corvallis, Ore.
Telephone: Waverly 9-3711.
ANNUAL CAPACITY: (⅛-inch basis) 150,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Roy J. Foy, pres. & gen. mgr.; Leo Foy, plant mgr.; John Johnson, plant supt.

BOHEMIA LUMBER CO., INC.

Culp Creek, Ore.
Telephone: WH 6-1511.
ANNUAL CAPACITY: (⅛-inch basis) 150,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer.
PERSONNEL: L. L. Stewart, pres.; S. E. Pittman, sls. mgr.; R. W. Kensit, plant mgr.

CAMPBELL & McLEAN, INC.

Plant address: Gold Beach, Ore.
Home address: 199 No. Bertelsen Rd., Eugene, Ore.
Telephone: DI 5-0577. Teletype: EG 120.
ANNUAL CAPACITY: (⅛-inch basis) 240,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: C. F. Campbell, pres.; L. C. Nelson, sls. mgr.; C. O. Thomason, plant mgr.; R. Sthen, plant supt.

CASCADES PLYWOOD CORP.

Plant address: Reedsport, Ore.
Home address: 1316 Public Service Bldg., Portland 4, Ore.
Telephone: CA 7-3648. Teletype: PD 149.
ANNUAL CAPACITY: (⅛-inch basis) 300,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: C. W. Fox, pres.; Don Baxter, gen. & plant mgr.

COOS VENEER CO.

P.O. Box 13, Broadbent, Ore.
Telephone: Myrtle Point 2751.
ANNUAL CAPACITY: (⅛-inch basis) 250,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Wm. J. McKinley, gen. mgr.

COQUILLE VALLEY LUMBER CO.

Plant address: Paris, Ore.
Home address: Route 3, Alsea, Ore.
Telephone: Tidewater, Ore., Jackson 8-3285.
ANNUAL CAPACITY: (⅛-inch basis) 216,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Leon Guggenbickler, pres.; Noble H. Chowning, gen. mgr.; Noble H. Chowning, Jr., sls. mgr.; A. V. Haslett, plant mgr.; Noble Robinson, plant supt.

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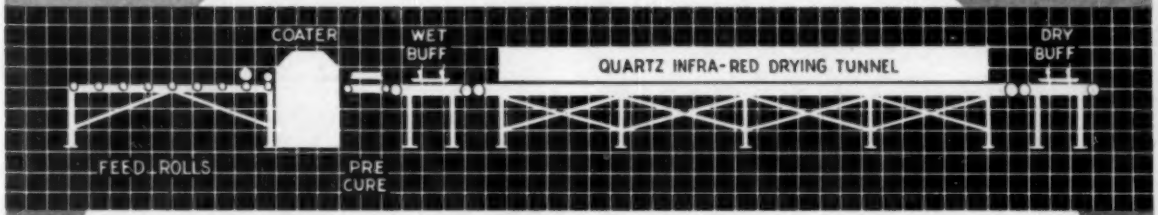

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CROWN ZELLERBACH CORP.
Plant address: St. Helens, Ore.
Home address: Public Service Building, Portland, Ore.
Telephone: CA 7-6481. Teletype: PD 192.
ANNUAL CAPACITY: (⅜-inch basis) 427,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: A. B. Layton, pres.; H. E. Bowman, plant supt.; R. V. Harkema, gen. mgr.

D L VENEER CO.
McMinnville, Ore.
Telephone: 5303.
ANNUAL CAPACITY: (⅜-inch basis) 24,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Lowell Sexton, pres.; Dale Sexton, gen. mgr.
SALES AGENTS: Cicel Hansen, Portland, Ore.

THE ROBERT DOLLAR CO.
Plant address: Glendale, Ore.
Telephone: Vernon 2-5810. Teletype: Glendale 39.
Home address: 311 California St., San Francisco, Calif.
ANNUAL CAPACITY: (⅜-inch basis) 175,500,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: R. Stanley Dollar, Jr., pres.; T. H. Mehl, Jr., gen. mgr.; Justice L. Taylor, day shift supt.; Gerald S. Antich, night shift supt.

DOUGLAS VENEER CO.
Plant address: Dixonville, Ore.
Home address: Box 1091, Roseburg, Ore.
ANNUAL CAPACITY: (⅜-inch basis) 378,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: C. H. Pearson, pres.

EDWARDS BROS. CONSTRUCTION CO.
P. O. Box 487, Albany, Ore.
Telephone: WA 6-2270.
ANNUAL CAPACITY: (⅜-inch basis) 30,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Allen Edwards, pres.; Marty Edwards, gen. & sls. mgr.; Tom Buchanan, plant supt.

ESTACADA VENEER CO.
Plant address: Route 1, Eagle Creek, Ore.
Home address: P.O. Box 446, Estacada, Ore.
Telephone: Crestwood 9-3240.
ANNUAL CAPACITY: (⅜-inch basis) 36,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Wm. H. Carson, plant mgr.

EUGENE STUD AND VENEER, INC.
Box 389, Eugene, Ore.
Telephone: DI 4-1474. Teletype: EG 119.
ANNUAL CAPACITY: (⅜-inch basis) 90,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: M. S. Fredrickson, pres., mgr. & sls. mgr.; W. T. Brown, plant supt.

EVANS PRODUCTS CO.
Plant address: Euchre Creek, Ore.
Telephone: Cherry 7-2273.
Home address: P.O. Box 839, Coos Bay, Ore.
ANNUAL CAPACITY: (⅜-inch basis) 57,500,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: E. S. Evans, Jr., pres.; C. J. Short, vice pres. & gen. mgr. Western Division; W. J. Ritchie, sls. mgr.; R. G. Extra, asst. sls. mgr.; Don Prohaska, plant mgr.

EVANS PRODUCTS CO.
Plant address: Gold Beach, Ore.
Telephone: Cherry 7-2111 or Cherry 7-2101.
Home address: P.O. Box 839, Coos Bay, Ore.
ANNUAL CAPACITY: (⅜-inch basis) 57,500,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: E. S. Evans, Jr., pres.; C. J. Short, vice pres. & gen. mgr. Western Division; W. J. Ritchie, sls. mgr.; R. G. Extra, asst. sls. mgr.; Don Prohaska, plant mgr.

FIRWOOD VENEER CORP.
Sandy, Ore. (Under Construction.)
EQUIPMENT: 1 lathe.
PERSONNEL: Alvin Eri, pres.; Duane Knapp, gen. mgr.

HUB CITY PLYWOOD CORP.
Plant address: P.O. Box 37, Creswell, Ore.
Telephone: TW 5-2241.
ANNUAL CAPACITY: (⅜-inch basis) 75,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Elton Disher, pres. & gen. mgr.; Wm. F. Gwinn, sls. mgr.; Robert Sandstrom, plant supt.

HULT LUMBER CO.
Plant address: Horton, Ore.
Home address: P.O. Box 517, Junction City, Ore.
Telephone: WYman 8-2313. Teletype: Junction City, Ore. 040.
ANNUAL CAPACITY: (⅜-inch basis) 120,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Julius P. Hult, pres.; Nils B. Hult, gen. mgr.; A. E. Wall, sls. mgr.; R. R. Van Orden, plant mgr.; Jack Lydston, plant supt.

INPLY CORP.
P.O. Box 426, Independence, Ore.
Telephone: 395.
ANNUAL CAPACITY: (⅜-inch basis) 260,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: John S. Brandis, pres.; Roy J. Foy, gen. mgr.; Leo Foy, plant mgr.; Cliff Layman, plant supt.

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KOGAP MANUFACTURING CO.
P.O. Box 1268, Medford, Ore.
Telephone: Spring 3-6601. Teletype: MF 43.
ANNUAL CAPACITY: (⅛-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Jerry S. Lausmann, pres.; S. V. McQueen, gen. mgr.; C. X. Heffner, plant mgr.; Leroy White, plant supt.

LANE VENEER CO.
Irving Road, Eugene, Ore.
Telephone: Diamond 5-2381.
ANNUAL CAPACITY: (⅛-inch basis) 228,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Marion Q. Jones, pres.; Nick Daviscourt, gen. mgr.; Slim Harder, plant supt.

MIAMI VENEER CO.
P.O. Box 288, Tillamook, Ore.
Telephone: VI 2-4428.
ANNUAL CAPACITY: (⅛-inch basis) 38,000,000 sq. ft. Species: 10,000,000 sq. ft. Douglas fir; 14,000,000 sq. ft. hemlock; 14,000,000 sq. ft. spruce.
EQUIPMENT: 1 lathe.
PERSONNEL: Orin W. Rosenberg, pres. & gen. mgr.; Robert Carroll, sls., plant mgr. & plant supt.
SALES AGENTS: Plywood Mill Veneer, Inc., Seattle, Wash.

MONROE LUMBER CO., INC.
Plant address: Riddle, Ore.
Home address: P.O. Box 868, Eugene, Ore.
Telephone: DI 4-3228. Teletype: EG 107.
ANNUAL CAPACITY: (⅛-inch basis) 14,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: M. C. Storms, pres. & gen. mgr.; E. J. Eberdt, sls. mgr.; John G. Willener, plant mgr.

NORDIC VENEERS INC.
Plant Address: Roseburg, Ore.
Home Address: P. O. Box 746, Sutherlin, Ore.
Telephone: 2232 Teletype: Oak 63.
ANNUAL CAPACITY: (⅛-inch basis) 90,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: J. R. Adams, pres. & sls. mgr.; N. H. Jacobson, plant mgr.; Don Schager, plant supt.

NORPLY VENEER CORP.
P.O. Box 97, Norway, Ore.
Telephone: Myrtle Point 1441.
ANNUAL CAPACITY: (⅛-inch basis) 252,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: John S. Brandis, pres.; Roy J. Foy, gen. mgr.; Leo Foy, plant mgr.; Con Driscoll, plant supt.

NORTH SANTIAM VENEER, INC.
P.O. Box 428, Idanha, Ore.
Telephone: Detroit 191.
ANNUAL CAPACITY: (⅛-inch basis) 200,000,000 sq. ft. Species: Douglas fir and hemlock. Plant in process of building. Expect to be in production 1/1/59.
EQUIPMENT: 1 lathe.
PERSONNEL: Milo Harris, pres. & gen. mgr.

OLYMPIC MANUFACTURING CO., Division of The Dean Co.
Plant address: 519 N.W. 10th Drive, P.O. Box 426, Gresham, Ore.
Telephone: MO 5-2161. Teletype: 95.
Home address: The Dean Co., 427 W. Randolph St., Chicago 6, Ill.
ANNUAL CAPACITY: (⅛-inch basis) 10,000,000 sq. ft. Species: Douglas fir, redwood, Philippine mahogany.
EQUIPMENT: 1 slicer, 2 dryers.
PERSONNEL: T. J. Connelly, pres.; J. S. Vaughan, gen. & plant mgr.; Joe Goldston, sls. mgr.; W. P. Edmondson, plant supt.
SALES AGENTS: Olympic Mfg Co., P.O. Box 426, Gresham, Ore.; The Dean Co., 2006 English St., High Point, N.C.; 819 S. Santee St., Los Angeles 14, Calif.; P.O. Box 8, New Albany, Indiana; Northern Veneer & Lumber Co., Ltd., 1060 Victoria St., Kitchener, Ontario, Can.; The Dean Co., 427 W. Randolph Street, Chicago 6, Ill.

OREGON COAST VENEER CO.
Plant address: P.O. Box 246, Brookings, Ore.
Home address: Centralia, Wash.
ANNUAL CAPACITY: (⅛-inch basis) 108,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: S. A. Agnew, pres.; John Madding, gen. mgr. & sls. mgr.

OREGON HARDWOOD VENEER, INC.
Box 696, Grande Ronde, Ore.
Telephone: UP 9-2552.
ANNUAL CAPACITY: (⅛-inch basis) 12,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe, 1 dryer.
PERSONNEL: Rurick Hendrickson, pres.

OREGON-WASHINGTON PLYWOOD CO., Brookings Division
Plant address: Harbor, Ore.
Telephone: Brookings 2044. Teletype: Brookings 493.
Home address: Garibaldi, Ore.
ANNUAL CAPACITY: (⅛-inch basis) 150,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Roy Backus, pres.; Theodore Nicoiai, gen. mgr.; Edwin Sund, plant mgr.

PORT ORFORD PLYWOOD CORP.
P.O. Box 69b, Port Orford, Ore.
Telephone: Edgewood 2-3111.
ANNUAL CAPACITY: (⅛-inch basis) 150,000,000 sq. ft. Species: Douglas fir.
PERSONNEL: H. W. Crook, pres.; J. K. Zook, gen. mgr.; Glenn Jackson, plant supt.

SIMPSON LOGGING CO.
Idanha, Ore.
Telephone: Detroit 492.
ANNUAL CAPACITY: (⅛-inch basis) 60,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.

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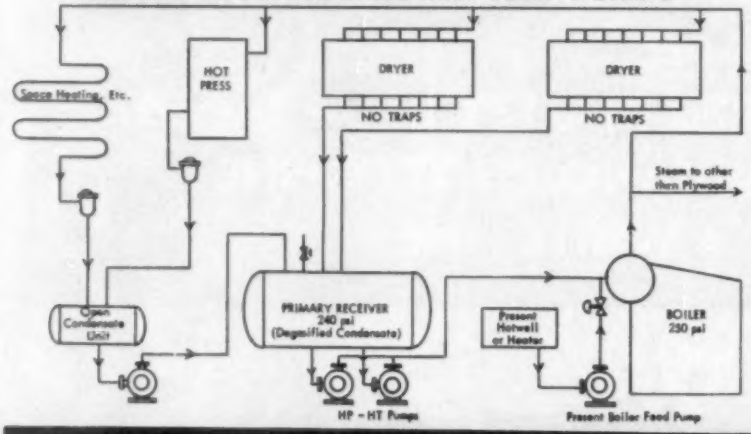

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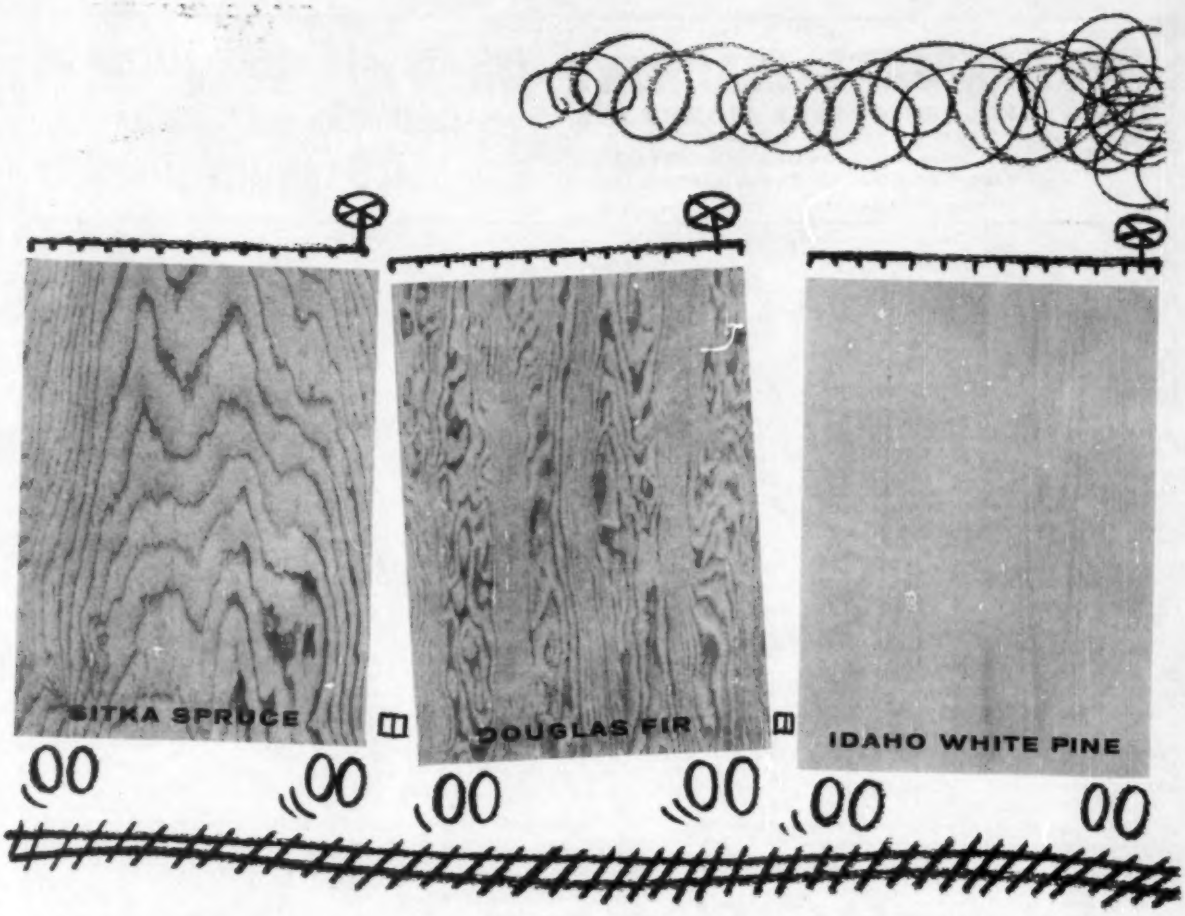

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SNELLSTROM LUMBER CO.

Plant Address: Elkton, Ore.
Home Address: P.O. Box 449, Eugene, Ore.

STIMSON LUMBER CO.

Box 68, Forest Grove, Ore.
Telephone: MI 4-9158.
ANNUAL CAPACITY: (⅛-inch basis) 200,000,000 sq. ft. Species: 190,000,000 sq. ft. Douglas fir; 10,000,000 sq. ft. hemlock.
EQUIPMENT: 1 lathe.
PERSONNEL: Harold A. Miller, pres. & gen. mgr.; R. W. Replogle, sales mgr.; E. L. Crocker, plant supt.

SWEET HOME VENEER

800 18th St., Sweet Home, Ore.

TILLAMOOK VENEER CO.

Plant Address: 1st & Cedar, Tillamook, Ore.
Home Address: P.O. Box 193, Tillamook, Ore.
Telephone: VI 2-7503.
ANNUAL CAPACITY: (⅛-inch basis) 200,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Walter Purcell, pres.; Elmer Hall, gen. sales and plant mgr.; Jack Clark, veneer plant supt.
SALES AGENTS: Vancouver Plywood Co., P.O. Box 720, Vancouver, Wash.

UMPQUA PLYWOOD CORP.

Plant Address: Tiller, Ore.
Home Address: P.O. Box 192, Roseburg, Ore.
Telephone: Orchard 2-3381.
ANNUAL CAPACITY: (⅛-inch basis) 50,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: W. H. Gonyea, pres.; G. S. McCarthy, gen. mgr.; Craig Dishman, sales mgr.; Walt Cook, plant supt.; George Rittenhouse, plant mgr.
SALES AGENTS: Umpqua Plywood Corp., Roseburg, Ore.

UNITED STATES PLYWOOD CORP., Oregon Division

Plant Address: P.O. Box 1456, Gold Beach, Ore.
Telephone: Cherry 7-2581. Teletype: 372.
Administrative headquarters and mail sales office: P.O. Box 672, Second and Garfield Sts., Eugene, Ore.
Home Office: 55 West 44th St., New York 17, N. Y.
ANNUAL CAPACITY: (⅛-inch basis) 126,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: S. W. Antoville, chmn. of board; Gene C. Brewer, pres., 55 West 44th St., New York, N. Y.; Marshall R. Leeper, Gen. Mgr.; Frank W. McPherson, operations mgr.; Al Haynes, plant supt.
SALES AGENTS: Offices in all major cities of U. S. and Canada. See listing of Anderson Calif. plant.

VANCOUVER PLYWOOD CO.

Plant Address: P.O. Box 1008, Springfield, Ore.
Telephone: RI 6-1681. Teletype: 042.
Home Address: P. O. Box 720, Vancouver, Wash.
Telephone: OX 3-2517. Teletype: 648.
ANNUAL CAPACITY: (⅛-inch basis) 210,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Frost Snyder, pres.; Donald I. Plumer Jr., gen. mgr.; P. A. Dame, plywood sales mgr.; James Hendrickson, veneer sales mgr.; Donald E. Rupe, plant mgr.
SALES AGENTS: Vancouver Plywood Co., Vancouver, Wash.

WEBCO VENEER

Plant Address: P.O. Box 1067, Roseburg, Ore.
Telephone: OR 3-5138.
Home Address: 111 Sutton St., San Francisco, Calif.
ANNUAL CAPACITY: (⅛-inch basis) 84,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Fred W. Payne, pres.; Roy Hill, gen. & sales mgr.; Virgil Canoy, plant supt.
SALES AGENTS: Bennett Veneers, Portland, Ore.

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INTERIOR-TYPE DOUGLAS FIR PLYWOOD PLYPANEL — DFPA TESTED QUALITY

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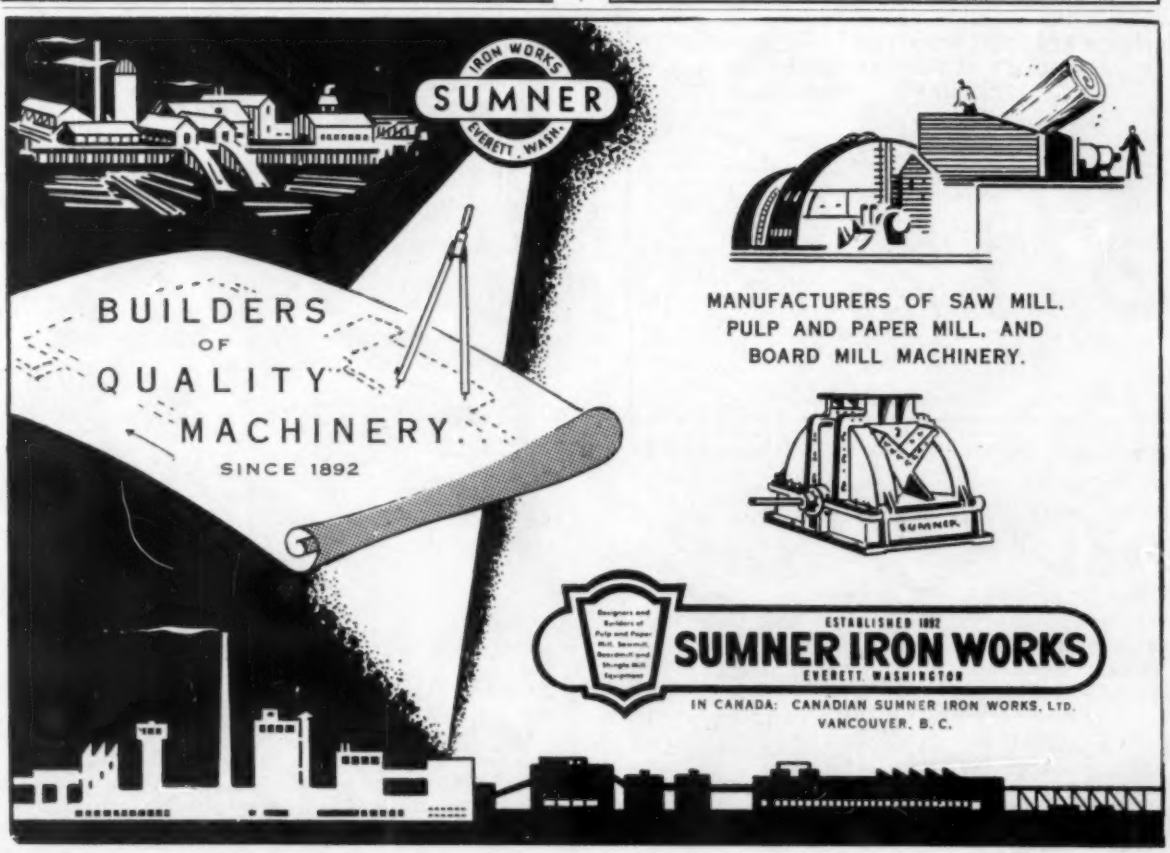
Plywood Plant
P. O. Box 8, Sonoma, Calif.



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PLYWOOD Corporation

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PRODUCERS OF DFPA TESTED QUALITY FIR PLYWOOD

WESTERN MILLING CO.
P. O. Box 33, Philomath, Ore.
Telephone: Waverly 9-4542.
ANNUAL CAPACITY: (⅜-inch basis) 264,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 2 lathes.
PERSONNEL: Stanley Wilt, owner & sales mgr.; Charles Hibbs, plant supt.; Harold Warren, asst. sales mgr.

WILLAMETTE VALLEY LUMBER CO.
Plant Address: Carlton, Ore.
Home Address: 326 Pacific Bldg., Portland 4, Ore.
Telephone: CA 7-5585.
ANNUAL CAPACITY: (⅜-inch basis) 86,400,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: William Swindells, pres.; R. L. Boone, vice pres. & gen. mgr.; A. F. Quirin, sales mgr.; S. J. Forquer, plant supt.; E. A. Cutler, res. mgr.

WASHINGTON

ALLEN LOGGING & VENEER CO.
Plant Address: Forks, Wash.
Home Address: 2405 S. Laurel St., Port Angeles, Wash.
Telephone: Frontier 4-3535.
ANNUAL CAPACITY: (⅜-inch basis) 50,000,000 sq. ft. Species: 40,000,000 sq. ft. hemlock; 10,000,000 sq. ft. spruce.
EQUIPMENT: 1 lathe.
PERSONNEL: Lloyd Allen, owner; Alvin Kettel, plant mgr.

BAY VENEER INC.
Route 2, Port Townsend, Wash.
Telephone: 707 R-1.
ANNUAL CAPACITY: (⅜-inch basis) 30,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Dave Macr[illegible] pres.; S. C. Brown, plant mgr.

BUCHANAN LUMBER CO.
P.O. Box 196, Olympia, Wash.
Telephone: Fleetwood 2-4863.
ANNUAL CAPACITY: (⅜-inch basis) 48,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Donald S. Buchanan, pres. & sales mgr.; Lester H. Schaller, gen. mgr.; A. E. Eddy, supt.

COWLITZ VENEER CO
P.O. Box 862, Randle, Wash.
Telephone: 2434.
ANNUAL CAPACITY: (⅜-inch basis) 85,000,000 sq. ft. Species: Douglas fir, white pine, hemlock.
EQUIPMENT: 1 lathe.
PERSONNEL: Kingsley F. Marks, pres.; John R. Moore, sales mgr., gen. mgr.; C. A. DeWalt, plant supt.

FARWEST PLYWOOD CO.
Plant Address: Kenmore, Wash.
Home Office: 2142 East D Street, Tacoma, Wash.
Telephone: Fulton 3-5533
PERSONNEL: George F. Baum, pres. & gen. mgr.; Vincent Kretz, supt.

HENDRICKS VENEER CO.
P.O. Box 351, Puyallup, Wash.
Telephone: TH 5-6691.
ANNUAL CAPACITY: (⅜-inch basis) 24,000,000 sq. ft. Species: Douglas fir; white pine; hemlock; spruce; maple; alder; ash.
EQUIPMENT: 1 lathe.
PERSONNEL: Frank R. Hendricks, owner & gen. mgr.; Lawrence W. Bonawits, plant supt.

POPE & TALBOT, INC.
Plant Address: Port Gamble, Wash.
Home Address: 3070 N. W. Front Ave., Portland, Ore.
Telephone: CA 8-9161. Teletype: PD 51.
ANNUAL CAPACITY: (⅜-inch basis) 90,000,000 sq. ft. Species: Douglas fir.

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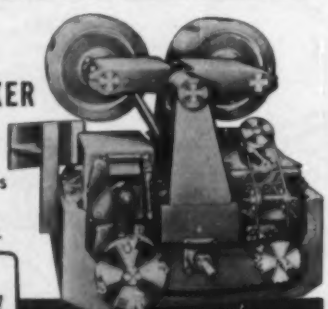

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WELCHBOARD
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SEATTLE'S AIA HOME OF THE YEAR.

This beautiful award-winner, designed by architect Gene Zema, AIA, for his own residence, features striking accent panels of Welchboard in harmony with spacious window wall areas.

ANOTHER OUTSTANDING HOME OF WELCHBOARD.

Van Evera Bailey, AIA, created this home utilizing an exterior application of Welchboard board-and-batten—over three years ago. The exterior remains as smooth and free from checking as the day it was completed.

EQUIPMENT: 1 lathe.
PERSONNEL: Geo. A. Pope, pres.; H. Luedde-mann, gen. mgr.; Robert H. Rushing, sales mgr.; W. E. Rock, Jr., plant supt.

RANDLE VENEER CO., INC.
Randle, Wash.
Telephone: Randle 2322.
ANNUAL CAPACITY: (⅛-inch basis) 120,000,-000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: Glen Hajen, pres.; R. A. Matott, gen. mgr.; Joe Bastinelli, plant supt.
SALES AGENTS: Lacey Plywood Co., Inc., Lacey, Wash.

RIDGEFIELD VENEER CO., INC.
P. O. Box 756, Ridgefield, Wash.

SEATTLE PLYWOOD CO.
Plant Address: Renton, Wash.
Home Address: 5237 E. Marginal Way, Seattle, Wash.
Telephone: PA 2-0737.
ANNUAL CAPACITY: (⅛-inch basis) 30,000,000 sq. ft. Species: Douglas fir and hemlock.
EQUIPMENT: 1 lathe; 1 dryer.
PERSONNEL: F. J. Hopkins and F. H. Hopkins—partners.

SKAGIT VENEER & LUMBER CORP.
Concrete, Wash.
Telephone: 2045

WIND RIVER VENEER CO., INC.
Stevenson, Wash.
Telephone: Stevenson 3611.
ANNUAL CAPACITY: (⅛-inch basis) 36,000,000 sq. ft. Species: Douglas fir.
EQUIPMENT: 1 lathe.
PERSONNEL: R. M. Hegewald, pres.; Roman Gill, plant supt.
SALES AGENTS: Diamond Lumber Co., Portland, Ore.

MANUFACTURERS of HARDWOOD PLYWOOD

ALABAMA

ALABAMA VENEER & PANEL CO.
1104 N. McDonough St., P.O. Box 429, Montgomery, Ala.
PRODUCT: Furniture, containers.
PERSONNEL: O. E. Howell, pres.; W. O. Johnson, plywood supt.; E. E. Murray, Jr., veneer supt.

BACON-McMILLAN VENEER MFG. CO.
Stockton, Ala.
ANNUAL CAPACITY: 4,500,000 sq. ft. (¼-inch basis). Species: Tupelo, gum, sycamore, cativo, poplar.
PRODUCT: Furniture.
PERSONNEL: Norman M. McInnis, Jr., pres. & gen. mgr.; Warren D. Gause, sales mgr.; George E. Catrett, plant supt.

W. E. BELCHER LUMBER CO.
Centreville, Ala.

HOWELL PLYWOOD CORP.
Dothan, Ala.

THOMPSON & SWAIM PLYWOOD, INC.
Tuscaloosa, Ala.
ANNUAL CAPACITY: 10,000,000 sq. ft. (¼-inch basis). Species: Poplar and gum.
PRODUCT: Furniture.
PERSONNEL: M. M. Swaim, pres.; Louise Thompson, sales mgr.; W. L. Whedbee, plant supt.

ARKANSAS

DELTA PLYWOOD CORP.
Cotton Plant, Ark.
ANNUAL CAPACITY: 8,000,000 sq. ft. (¼-inch basis). Species: Gum, tupelo, sycamore, cotton-wood, walnut, cherry, oak, mahogany.
PRODUCT: Furniture, stock, formed.
PERSONNEL: David D. Bush, pres. & sls. mgr.; H. P. Parnell, gen. & plant mgr. & plant supt.
SALES AGENTS: Southwestern Veneer Co., Cotton Plant, Ark.

McKNIGHT VENEER & PLYWOODS, INC.
DR 226, West Helena, Ark.

OWOSSO MANUFACTURING CO.
Benton, Ark.

FLORIDA

FLORIDA VENEER CO., INC.
P.O. Box 86, Monticello, Fla.

HOWELL INDUSTRIES, INC.
Caryville, Fla.
ANNUAL CAPACITY: 4,000,000 sq. ft. (¼-inch basis). Species: gum, bay, poplar.
PRODUCT: furniture.
PERSONNEL: O. E. Howell, pres.; George E. Howell, sls. mgr. & plant mgr.

SOUTHERN PLYWOODS, INC.
P.O. Box 448, Greenville, Fla.
ANNUAL CAPACITY: 15,000,000 sq. ft. (¼-inch basis). Species: southern hardwoods, birch, mahogany, oak, walnut, cherry.
PRODUCTS: furniture, stock, architectural, doors, technical ply., prefinished panels, scarfed panels.
PERSONNEL: Julius J. Stern, pres.; Peter J. Stern, vice pres.; C. W. Dietterich, sls. mgr.; Wade T. Jones, plant supt.

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An excellent WILLIAMS-WHITE Hydraulic Hot Plate Press installation is shown in the photograph at right. Whether producing 12" x 12" or 48" x 192" panels, the experience accumulated in building hydraulic hot plate presses since 1933 becomes an integral part of each WILLIAMS-WHITE Press furnished to the plywood, particle board or allied industries. We invite you to discuss your requirements with us before you buy. Write for complete information.

The press illustrated is a 20 opening, 1,484 ton, 106" x 56" WILLIAMS-WHITE Hot Plate Press in the GPX Plastic Surfaced Plywood operation in the Olympia, Washington, plant of Georgia-Pacific Corp.

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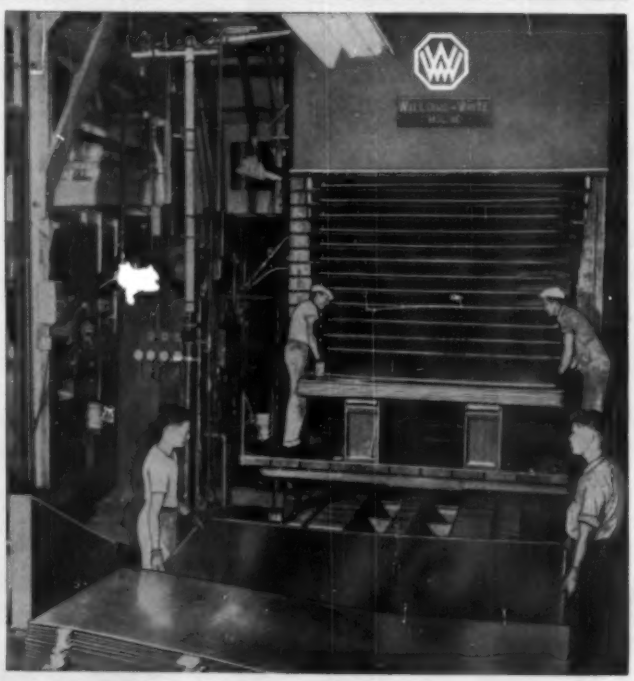

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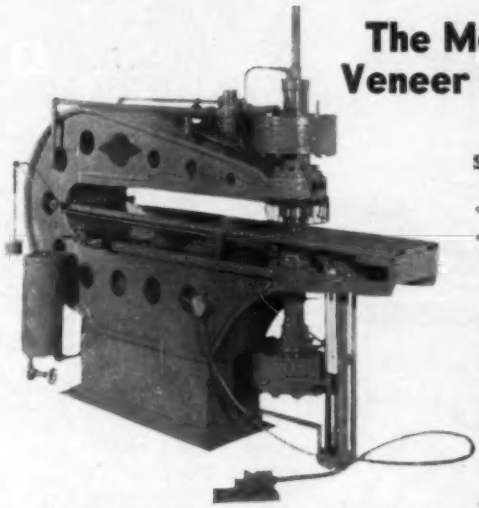

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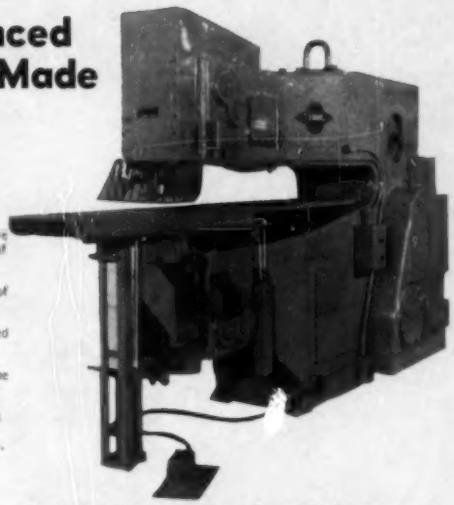
* Patent applied for



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GEORGIA

BRADLEY PLYWOOD CORP.
Plant address: So. end of West Lathrop Ave., Savannah, Ga.
Home address: 3505 Abercorn St., Savannah, Ga.
ANNUAL CAPACITY: 12,000,000 sq. ft. (¼-inch basis). Species: gum, oak, birch, walnut, mahogany & local hardwoods.
PRODUCT: stock panels.
PERSONNEL: Waldo Bradley, pres.

GEORGIA PLYWOOD CORP.
P.O. Box 599, E. Jackson St., Dublin, Ga.
ANNUAL CAPACITY: 18,000,000 sq. ft. (¼-inch basis).
PRODUCTS: pre-finished V-grooved hardwood plywood.

GEORGIA-PACIFIC CORP.
Box 1350, Savannah, Ga.
ANNUAL CAPACITY: 30,000,000 sq. ft. (¼-inch basis). Species: gum, birch, oak, walnut, cherry, ash, mahogany.
PRODUCT: stock panels.
PERSONNEL: R. B. Pamplin, pres.; Frank R. Schuh, vice pres.; C. D. Wheeler, gen mgr.; R. C. Schmidt, sls. mgr.; R. B. Westgate, plant mgr.

PRINSHO VENEER CO., INC.
P.O. Box 686, Valdosta, Ga.
PRODUCTS: gum, bay, magnolia, poplar furniture stock.
PERSONNEL: J. C. Woodward Jr., pres. & gen. mgr.; B. S. Hightower, plant mgr.; Jack Gayle, Jr., sls. mgr.

VALDOSTA PLYWOODS, INC.
East Savannah Ave., Valdosta, Ga.
ANNUAL CAPACITY: 3,000,000 sq. ft. (¼-inch basis). Species: gum, bay, poplar.
PRODUCT: furniture.
PERSONNEL: D. E. Nichols, pres.; H. J. Feely, sls. mgr.
SALES AGENTS: Nichols & Nichols, Tribune Tower, Chicago 11, Ill.

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Weight — 8700 pounds
Size of Knives — ½" x 5⅞" x 8⅞"
No. of Rotor Knives — 20
Diameter of Rotor Shaft — 5-3/16"

62" DOUBLE ANVIL HOG
Approx. Capacity — 36 Tons per hour
Weight — 15,000 pounds
Size of Rotor Knives ½" x 6½" x 10⅝"
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THE HOOSIER PANEL CO.
New Albany, Ind.

THE JASPER CORP.
P.O. Box 187, Jasper, Ind.
ANNUAL CAPACITY: 25,000,000 sq. ft. (¼-inch basis). Species: walnut, butternut, white oak, red oak, pecan, mahogany.
PRODUCT: furniture, doors, formed, plastic lamination.
PERSONNEL: Arnold F. Habig, pres.; Thomas L. Habig, gen. mgr.; Anthony P. Habig, sls. mgr.; Leon Pfister, plant mgr.; H. Thyen, gen. mgr. The Jasper Stylemaster Corp., P.O. Box 108, Jasper, Ind. (curved & formed plywood.)

JASPER WOOD PRODUCTS CO., INC. (Plant No. 1)
13th & Leopold, Jasper, Ind.
ANNUAL CAPACITY: 10,000,000 sq. ft. (¼-inch basis).
PRODUCTS: furniture, stock, architectural, doors and door skins formed.
PERSONNEL: V. J. Gramelspacher, pres.; C. U. Gramelspacher, gen. mgr.; Alex Schreiber, sls. mgr.; E. G. Hoffman, plant mgr.; Geo. Kieffner, plant supt.

CHESTER B. STEM, INC.
P.O. Box 231, New Albany, Ind.
PRODUCTS: flitch form veneer and rough RL&W hardwood lumber.
PERSONNEL: Chester B. Stem, pres.; Richard K. Stem, gen. mgr.

KENTUCKY

GENERAL PLYWOOD CORP.
3131 West Market St., Louisville 12, Ky.
Plants at: Tarboro, N. C., and New Albany, Ind.

LOUISIANA

HIGGINS INDUSTRIES, INC.
P.O. Box 8169, New Orleans, La.
ANNUAL CAPACITY: 19,800,000 sq. ft. (¼-inch basis).
PRODUCTS: Oak for hardwood block flooring; marine ply.
PERSONNEL: Frank O. Higgins, pres.; E. C. Higgins, plant mgr.; E. P. Crozat, sales mgr.

IPIK DOOR CO., INC.
Kenner, La.
PRODUCTS: architectural, doors.
PERSONNEL: Louis Pick, pres. & gen. mgr.; Gus Yeomans, sls. mgr.

MAINE

ATLAS PLYWOOD CORP.
Plant address: Greenville, Me.
Home address: 635 Madison Ave., New York 22, N. Y.
PRODUCT: birch door panels.
PERSONNEL: Willard L. Heinrich exec. vice pres.
SALES AGENTS: Stover Associates, 550 Fifth Ave., New York 36, N. Y.

ATLAS PLYWOOD CORP.
Houlton, Me. (2 plants)

ATLAS PLYWOOD CORP.
Patten, Me.

QUIMBY, ALLEN VENEER CO.
Bingham, Me.
ANNUAL CAPACITY: 20,000,000 sq. ft. (¼-inch basis). Species: birch.
PRODUCT: cupboard doors.
PERSONNEL: Langdon C. Quimby, pres.; Paul Matheson, gen. & plant mgr.

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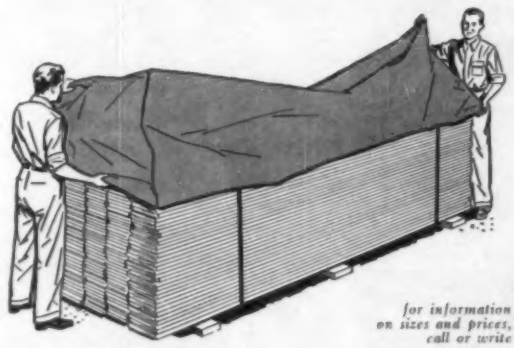

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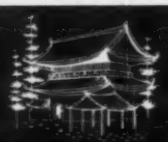

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MICHIGAN

ATLAS PLYWOOD CORP.
Gladstone, Mich.

ATLAS PLYWOOD CORP.
Newberry, Mich.

PLY CURVES, INC.
1615 Monroe Ave., N.W., Grand Rapids, Mich.
ANNUAL CAPACITY: 2,000,000 sq. ft. (¼-inch basis). Species: poplar, gum, bass, birch, maple, walnut, cherry, mahogany.
PRODUCTS: formed plywood, church pews.

MISSISSIPPI

FERNWOOD INDUSTRIES
Fernwood, Miss.
ANNUAL CAPACITY: 10,000,000 sq. ft. (¼-inch basis). Species: tupelo, gum.
PRODUCT: furniture.

PASCAGOULA VENEER CO.
Pascagoula, Miss.
ANNUAL CAPACITY: 30,000,000 sq. ft. (¼-inch basis). Species: cativo.
PRODUCTS: stock, formed.
PERSONNEL: M. Pick, pres.

PERRY COUNTY PLYWOOD CORP.
Beaumont, Miss.

PICAYUNE VENEER & PLYWOOD CO.
Picayune, Miss.

TUSCALOOSA VENEER CO.
P.O. Box 107, Meridian, Miss.
ANNUAL CAPACITY: 6,200,000 sq. ft. (¼-inch basis). Species: southern hardwoods.
PRODUCTS: furniture, stock, doors.
PERSONNEL: O. E. Howell, part-owner & gen. mgr.; J. B. Gunn, Jr., plant mgr.

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VENEER AND PLYWOOD HOG

- LOW INSTALLATION COST
- LOW MAINTENANCE COST
- FLEXIBLE INSTALLATION
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GRANITE STATE VENEER, INC.
North Stratford, N. H.

KELLER PRODUCTS, INC.
41 Union Street, Manchester, N. H.
ANNUAL CAPACITY: 1,000,000 sq. ft. (¼-inch basis). Species: maple, mahogany, walnut, oak.
PRODUCT: Stock, architectural, formed, specialties.
PERSONNEL: Robert R. Keller, pres.; John C. Stanhope, gen. mgr.

UNITED STATES PLYWOOD CORP. Tekwood Division.
Plant address: Lakeport, N. H.
Home address: 55 West 44th Street, New York 36, N. Y.
PRODUCT: Tekwood.
PERSONNEL: T. O. Gable, gen. mgr.; Lyman Cranston, sls. mgr.

NEW YORK

GEORGIA-PACIFIC CORP.
McKeever, New York.
PERSONNEL: R. B. Pamplin, pres.; G. E. Brown, gen. mgr.; S. V. Ellis, plant supt.

JAMESTOWN VENEER & PLYWOOD CORP.
34 Steele Street, Jamestown, N. Y.

JAMESTOWN VENEER & PLYWOOD CORP.
Poland, New York.

NORTH CAROLINA

ATLAS PLYWOOD CORP.
Plant address: Plymouth, N. C.
Home address: 635 Madison Ave., New York 22, N. Y.
PRODUCT: gum door panels.
PERSONNEL: Willard L. Heinrich, exec. vice pres.
SALES AGENTS: Stover Associates, 550 Fifth Ave., New York 36, N. Y.

CALYPSO PLYWOOD COMPANY, INC.
Calypso, N. C.
ANNUAL CAPACITY: 15,600,000 sq. ft. (¼-inch basis). Species: Gum & all exoticwood furniture.
PERSONNEL: B. E. Bryan, pres.; W. D. Kornegay, Jr., gen. mgr.

CAROLINA PANEL CO., INC.
Lexington, N. C.
ANNUAL CAPACITY: 7,000,000 sq. ft. (¼-inch basis). Species: poplar, walnut, oak, cherry, mahogany.
PRODUCT: furniture, formed.
PERSONNEL: L. M. Grimes, Sr., pres.; C. H. Hargrave, gen. sls. & plant mgr.; C. H. Young, plant supt.
SALES AGENTS: Victor S. Barnes & Co., Grand Rapids, Mich. Sieling & Jones, Box 492, York, Pa.; J. E. Breece, Jr., New Albany, Ind.

CAROLINA PLYWOOD CO., INC.
805 East Center St., Apex, N. C.
PRODUCT: gum, poplar, oak, mahogany, sycamore furniture.
PERSONNEL: E. M. Edwards, Sr., pres.; C. M. Edwards, sls. mgr.; E. M. Edwards, Jr., production mgr.

DENNY ROLL & PANEL CO.
207 Perry St., High Point, N. C.
PRODUCT: furniture.
PERSONNEL: D. Waring Smith, pres. & gen. mgr.; D. T. Harvey, Jr., plant mgr.

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PERSONNEL: R. B. Pamplin, pres.; Frank R. Schuh, vice pres.; C. D. Wheeler, gen. mgr.; R. C. Schmidt, sls. mgr.; R. B. Westgate, plant mgr.

HASTY VENEER CO., INC.
Maxton, N. C.
ANNUAL CAPACITY: 4,500,000 sq. ft. (¾-inch basis). Species: gum, poplar, maple, walnut, oak, cherry, pecan, white pine, magnolia, birch, African and Honduras mahogany, African cherry, teak.
PRODUCT: furniture, formed.
PERSONNEL: Thomas John, pres. & gen. mgr.; L. B. Martin, Jr., asst. mgr.

LAURINBURG PLYWOOD CORP.
Laurinburg, N. C.
ANNUAL CAPACITY: 7,200,000 sq. ft. (¾-inch basis). Species: gum and poplar.
PRODUCT: furniture.
PERSONNEL: J. F. McNair, Jr., pres.; A. J. Spivey, gen., sls., plant mgr. & plant supt.

LENOIR VENEER CO.
Virginia St., Lenoir, N. C.
ANNUAL CAPACITY: 4,000,000 sq. ft. (¾-inch basis. Species: poplar and gum.
PRODUCT: furniture, formed.
PERSONNEL: James T. Broyhill, pres.; C. Hubert Thomas, gen. mgr.

McLEOD PLYWOOD BOX CO., INC.
Wadesboro, N. C.

THE MENGEL COMPANY
Plant address: Elizabeth City, N. C.
Home address: 4th & Colorado, Louisville, Ky.
ANNUAL CAPACITY: 18,000,000 sq. ft. (¾-inch basis). Species: gum.
PRODUCTS: furniture, stock.
PERSONNEL: Lyman C. Martin, pres.; R. F. Kulmer, gen. mgr.; J. C. Prescott, plant mgr.; C. B. McKeehan, sls. mgr.; H. E. Ross, plant supt.

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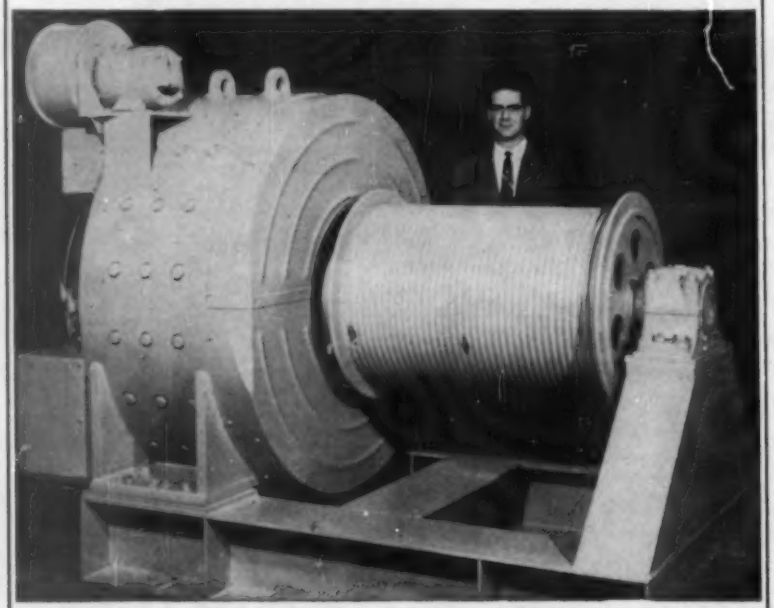

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RIVERSIDE MANUFACTURING CO., INC.
Plant address: Weldon, N. C.
Home address: Murfreesboro, N. C.
PRODUCTS: furniture, stock, doors, formed.
PERSONNEL: E. P. Brown, pres.; R. F. Lee, gen. mgr.; G. O. Adams, plant mgr.; E. P. Brown, Jr., sls. mgr. Weldon plant.
SALES AGENTS: Parrot Williams, Louisville, Ky.; Costal Lumber Sls., Weldon, N. C.

STATESVILLE PLYWOOD & VENEER CO.
Box 707, Statesville, N. C.
ANNUAL CAPACITY: 10,800,000 sq. ft. (¼-inch basis).
PRODUCTS: furniture, stock.
PERSONNEL: E. M. Shelton, pres.; Cecil Richardson plant supt.

THOMASON PLYWOOD CORP.
Fayetteville, N. C.
PRODUCT: flush doors.
PERSONNEL: B. H. Thomason, pres.; D. R. Thomason, sls. mgr.; S. Doxey, plant mgr.; C. M. Albert, plant supt.

WELDON VENEER CO., INC.
Weldon, N. C.
ANNUAL CAPACITY: 5,000,000 sq. ft. (¼-inch basis). Species: poplar, gum, oak.
PRODUCT: doors.
PERSONNEL: R. B. Metcalfe, pres.

PENNSYLVANIA

JASPER WOOD PRODUCTS CO., INC.
Plant address: Watsontown, Pa.
Home address: Jasper, Ind.
PERSONNEL: V. J. Gramelspacher, pres.; Louis Framme, plant mgr.

PENN VENEER CO., INC.
P. R. R. & Sumner St., York, Pa.
ANNUAL CAPACITY: 400,000 sq. ft. (¼-inch basis).
PRODUCTS: furniture, doors, patented flexible circle and stair risers.
PERSONNEL: Clair S. Kauffman, owner; George L. Jacobs, gen. mgr.

SOUTH CAROLINA

CAROLINA VENEER & PLYWOOD CO.
P.O. Box 1292, Florence, S. C.
PRODUCT: gum, poplar, sycamore, maple furniture.
PERSONNEL: Dan W. Tyler, sls. mgr.; Walter D. Tyler, Jr., plant mgr.

DARLINGTON VENEER COMPANY, INC.
Darlington, S. C.
ANNUAL CAPACITY: 30,000,000 sq. ft. (¼-inch basis). Species: birch, walnut, oak, maple, mahogany, gum.
PRODUCT: stock panels.
PERSONNEL: Jack Ramsey, pres.; J. F. Shuman, plant mgr.; Wiley Edens, sls. mgr.

DREXEL FURNITURE CO.
P.O. Box 337, Kingstree, S. C.
ANNUAL CAPACITY: 6,067,698 sq. ft. (¼-inch basis). Species: gum, poplar.
PRODUCT: furniture.
PERSONNEL: R. O. Huffman, pres.; W. B. Bower, gen. mgr.; J. C. Gregory, plant supt.

JOHNSTON VENEER CO., INC.
Park Avenue, P.O. Box 161, Johnston, S. C.
ANNUAL CAPACITY: 4,500,000 sq. ft. (¼-inch basis).
PRODUCT: furniture.
PERSONNEL: Homer N. Meier, pres.; H. C. Stubbs, Jr., gen. mgr.; J. T. Robinson, plant supt.
SALES AGENTS: Paralite Corp, 30-26 90th St., Jackson Heights, N. Y.

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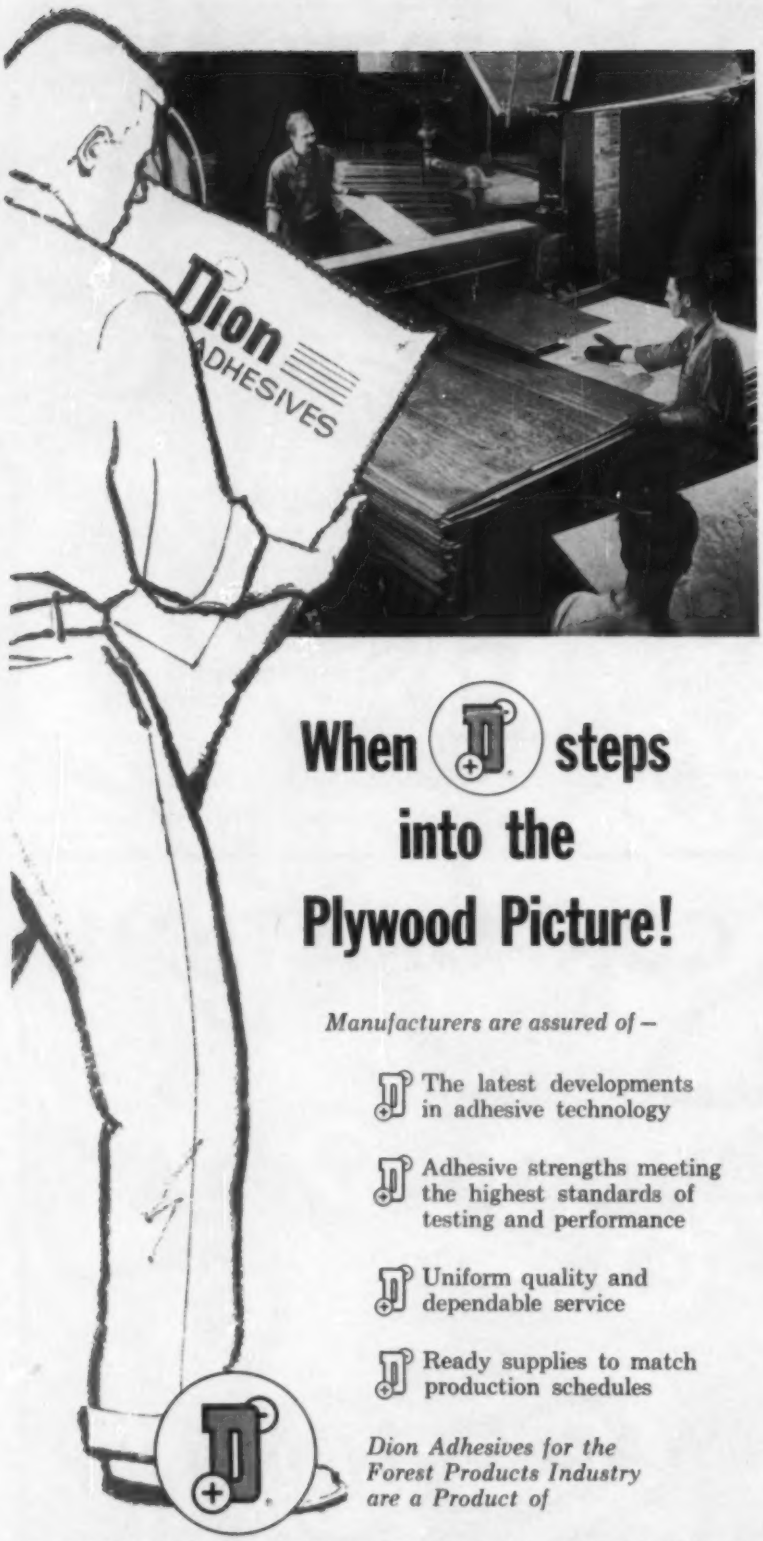

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THE PLYWOOD COMPANY
Sumter, S. C.

POWE VENEER CO.
West DeKalb Street, Camden, S. C.
PERSONNEL: Edwin P. Guy, pres.; J. L. Boan, sales, gen., plant mgr.

STANDARD PLYWOODS, INC.
Clinton, S. C.
ANNUAL CAPACITY: 12,000,000 sq. ft. (¾-inch basis).
PRODUCTS: prefinished wall panels, flooring, cut to size.
PERSONNEL: L. W. Anderson, pres.; R. W. Anderson, vice pres. & gen. mgr.; L. M. Wilson, vice pres. & gen. mgr. Modernwood div.

THE STILLEY PLYWOOD CO., INC.
Box 770, Conway, S. C.
PRODUCT: furniture of gum, oak, maple.
PERSONNEL: W. A. Stilley, Jr., pres. & gen. mgr.; F. B. Spires, sls. & plant mgr.; Harry Lee, plant supt.

UNITED STATES PLYWOOD CORP.
(Orangeburg Division)
Plant address: Orangeburg, S. C.
Home address: 55 West 44th Street, New York 36, N. Y.
PRODUCTS: stock panels, prefinished plywood.
PERSONNEL: B. P. Adams, gen. mgr.; C. B. Sease, sls. mgr.

WINNSBORO PLYWOOD CO.
South Congress, Winnsboro, S. C.

TENNESSEE

MEMPHIS PLYWOOD CORP.
337 E. Mallory Ave., Box 3126, Memphis 9, Tenn.
ANNUAL CAPACITY: 4,000,000 sq. ft. (¾-inch basis). Species: oak, walnut, maple, mahogany.
PRODUCTS: furniture, doors, formed, specialties.
PERSONNEL: M. H. Speltz, pres. & sls. mgr.; Leo W. Speltz, plant mgr. & supt.

NICKEY BROS., INC.
2700 Summer Ave., Memphis, Tenn.
ANNUAL CAPACITY: 25,000,000 sq. ft. (¾-inch basis). Species: red oak, white oak, birch, Philippine mahogany, walnut.
PRODUCT: stock.
PERSONNEL: S. M. Nickey, Jr., exec. vice pres.

PANOPLY CORP.
Lexington, Tenn.
ANNUAL CAPACITY: 12,000,000 sq. ft. (¾-inch basis). Species: birch, knotty pine, oak, walnut, maple on fir core.
PRODUCT: stock panels.
PERSONNEL: J.W. Kennicott, pres.; F. J. Hertel, sls. mgr.; John Brooks, plant supt.
SALES AGENTS: Robert J. Willis Co.; Triangle Plywood Sales.

SOUTHERN LAMINATING CO.
1601 Clancy, P.O. Box 115, Memphis, Tenn.
ANNUAL CAPACITY: 9,000,000 sq. ft. (¾-inch basis). Species: southern hardwoods.
PRODUCTS: furniture, formed.
PERSONNEL: F. S. Kuhns, managing partner; R. L. Burkhart, sls. mgr.; L. E. Riggin, plant supt.

TRI-STATE VENEER & PLYWOOD, INC.
83 Waterworks Avenue, Memphis, Tenn.

TEXAS

E. L. BRUCE CO. OF TEXAS
Box 826, Center, Tex.
ANNUAL CAPACITY: 21,000,000 sq. ft. (¾-inch basis). Species: Southern hardwoods.

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SALES AGENTS: Doors-Otto Nachlas, Houston, Tex.; Block flooring; E. L. Bruce Co., Memphis, Tenn.

THE MATHES COMPANY
Center, Tex.

WALKER PLYWOOD CO.
Cleveland, Texas.
ANNUAL CAPACITY: 48,000,000 sq. ft. (¼-inch basis). Species: gum, magnolia, oak.
PRODUCTS: furniture, doors.
PERSONNEL: J. Rosenbaum, pres.; J. McCraw, plant mgr.; L. Lee, plant supt.

VERMONT

BRADFORD VENEER & PANEL CO., INC.
Bradford, Vt.
ANNUAL CAPACITY: 6,000,000 sq. ft. (¼-inch basis). Species: birch, maple, oak, basswood, beech, walnut, cherry, mahogany.
PRODUCT: furniture.
PERSONNEL: W. J. Farr, pres. & sls. mgr.; W. E. Lee, plant mgr.; E. Aldrich, plant supt.
SALES AGENTS: J. W. Smith, Jenkintown, Pa.; A. J. Gallagher, 1 Exchange Pl., Jersey City, N. J.

THE FYLES COMPANY, INC.
Shoreham, Vt.

OWENS ILLINOIS PLYWOOD CO.
Hancock, Vt.
ANNUAL CAPACITY: 25,000,000 sq. ft. (¼-inch basis). Species: birch, oak.
PRODUCTS: stock, prefinished panels.
PERSONNEL: F. T. Nesbitt, pres.; N. C. Fidler, gen. mgr.; R. G. Sherman, factories mgr.; S. G. Perry, plant supt.

OWENS ILLINOIS PLYWOOD CO.
North Troy, Vt.
ANNUAL CAPACITY: 25,000,000 sq. ft. (¼-inch basis). Species: birch.
PRODUCTS: furniture, doors, fire doors.
PERSONNEL: F. T. Nesbitt, pres.; H. C. Fidler, gen. mgr. & sls. mgr.; R. G. Sherman, factories mgr.; W. Robinson, plant supt.

PILGRIM PLYWOOD CORP.
Waterbury, Vt.
PERSONNEL: Alton W. Wheeler, pres.; Raymond A. Neill, plant mgr.

VIRGINIA

BURKEVILLE VENEER CO.
Burkeville, Va.

HENRY COUNTY PLYWOOD CORP.
Ridgeway, Va.
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INTERSTATE VENEER CO., INC.

Emporia, Va.

OLD DOMINION PLYWOOD CORPORATION

Bristol, Va.

PRODUCTS: stock, architectural.

PERSONNEL: C. J. Stone, Sr., pres.; W. A. Harkleroad, plant supt.

VALLEY VENEER COMPANY, INC.

Bassett, Va.

ANNUAL CAPACITY: 5,000,000 sq. ft. (¼-inch basis). Species: white and red oak.

PRODUCT: furniture.

PERSONNEL: J. D. Bassett, Jr., pres.; D. G. Young, gen. mgr.; H. J. Wade, plant mgr.; Lester Smith, plant supt.

VIRGINIA PLYWOOD CORP.

Box 2177, Danville, Va.

ANNUAL CAPACITY: 6,000,000 sq. ft. (¼-inch basis). Species: gum, poplar, oak, walnut, birch, cherry.

PERSONNEL: R. S. Jordan, pres.; Henry D. Whittle, Jr., gen. mgr.; George Sprinkle, plant supt.

WEBB PLYWOOD CORP.

Rocky Mount, Va.

ANNUAL CAPACITY: 1,040,000 sq. ft. (¼-inch basis).

PRODUCT: furniture.

PERSONNEL: J. Herman Webb, pres., gen. & sls. mgr.; J. C. Hall, plant supt.

WEST VIRGINIA

ALLEGHENY LUMBER CO.

P.O. Box 409, Elkins, Va.

ANNUAL CAPACITY: 6,000,000 sq. ft.

PRODUCTS: furniture, stock.

PERSONNEL: Morris J. Goldberg, pres.; Robert I. Solow, gen. mgr.; Paul Hedrick, plant supt.

WISCONSIN

ALGOMA PLYWOOD & VENEER CO., Division of United States Plywood Corp.

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PRODUCT: furniture, stock, architectural, doors, formed.

PERSONNEL: Ray P. Fulwiler, pres. & gen. mgr. of div.; F. D. Kambach, comptroller; W. S. Canney, sls. mgr.; G. R. Mercer, plant mgr.; J. J. Laurent, prod. mgr.

CURTIS CO., INC., New London Div.

Plant address: New London, Wis.
Home address: Clinton, Iowa.

ANNUAL CAPACITY: 1,500,000 sq. ft. (⅜-inch basis). Species: northern hardwoods.

PRODUCT: furniture, doors.

PERSONNEL: Geo. M. Curtis, pres.; T. K. Miller, gen. mgr.; F. Kreider, sls. mgr.; A. Luft, plant supt.; E. E. Fuhrmann, ser. mgr.

F. EGGERS PLYWOOD & VENEER CO.

19th and East River Sts., Two Rivers, Wis.

ANNUAL CAPACITY: 16,000,000 sq. ft. (¼-inch basis). Species: domestic and foreign woods.

PRODUCTS: furniture, stock, architectural, doors.

PERSONNEL: G. S. Lester, pres. & gen. mgr.; W. S. Park, plant mgr.; H. J. Hagedorn and C. E. Sorenson, sls. mgr.; C. O. Behring, plant supt.

GILLETT VENEER & PLYWOOD CO.

Gillett, Wis.

PERSONNEL: F. P. Furlong, pres.; Carl V. Nelson, gen. mgr.; Oscar Sorensen, plant supt.

LARSON PLYWOOD CO.

2110 N. 15th St., Sheboygan, Wis.

LINWOOD, INC.

Gillett, Wis.

PRODUCTS: furniture, stock, die blocks, specialties.

PERSONNEL: Walter W. Smith, pres. & gen. mgr.

SALES AGENTS: Aetna Plywood & Veneer Co., 1731 Elston Ave., Chicago, Ill.; Milwaukee Plywood Co., Inc., 1227 W. Bruce St., Milwaukee, Wis.

LULLABYE FURNITURE CORP.

Stevens Point, Wis.

MARION PLYWOOD & VENEERS

Marion, Wis.

ANNUAL CAPACITY: 225,000 sq. ft. (¼-inch basis). Species: birch, oak, maple.

PRODUCTS: furniture, stock, doors.

PERSONNEL: E. S. Rogers, pres.; T. E. Rogers, gen. mgr.; J. G. Rogers, plant mgr.

NELSON PLYWOOD CORP.

Gillett, Wis.

ANNUAL CAPACITY: 2,400,000 sq. ft. (¼-inch basis). Species: birch, maple, red oak.

PRODUCTS: furniture, doors & door skins, formed.

PERSONNEL: Carl V. Nelson, pres.; J. D. Aldridge, sls. mgr.; Oscar Sorensen, plant supt.

PLUSWOOD INDUSTRIES

1145 Oshkosh Ave., Oshkosh, Wis.

ANNUAL CAPACITY: 40,000,000 sq. ft. (¼-inch basis).

PRODUCT: stock panels.

PERSONNEL: F. L. Boschwitz, managing partner.

RODDIS PLYWOOD CORP.

Marshfield, Wis.

PRODUCTS: stock panels, architectural, doors, prefinished paneling of oak, walnut, birch, mahogany, maple, cherry, elm.

PERSONNEL: C. Blanchar, pres.; A. C. Baudek, plant mgr.; D. Gott, sls. mgr.

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SPLICEWOOD CORP.
Mellen, Wis.
ANNUAL CAPACITY: 30,000,000 sq. ft. (¼-inch basis). Species: birch, elm, ash, basswood, walnut, mahogany, maple, oak, cherry.
PRODUCT: furniture, panels, architectural, doors.
PERSONNEL: M. C. McIver, pres.; George Lombardi, gen. mgr.; J. W. Saunders, sls. mgr.; Cleon Kull, plant mgr.

UNDERWOOD VENEER CO. (Div. of The Connor Lumber & Land Co.)
231 Thomas Street, Wausau, Wis.

WEBER VENEER & PLYWOOD CO.
Shawano, Wis.

WISCONSIN TIMBER & LAND CO., INC.
Mattoon, Wis.
PRODUCTS: furniture, doors of maple, birch, oak, basswood, elm.
PERSONNEL: Gerald Glowen, pres.; Frank G. Berger, gen. mgr.

CANADA

BELLERIVE VENEER & PLYWOODS LTD.
Mont Laurier, Quebec, Can.
ANNUAL CAPACITY: 10,000,000 sq. ft. (¾-inch basis). Species: birch.
PRODUCT: Door panels.
PERSONNEL: Dr. T. Lachapelle, pres.; Dr. G. Lachapelle, gen. mgr.

CANADA FLUSHWOOD DOOR MFG., LTD.
Theberge Street, Terrebonne, P. Q.
ANNUAL CAPACITY: 12,000,000 sq. ft. (¾-inch basis). Species: birch.
PRODUCT: flush doors.
PERSONNEL: J. Emile Langlois, pres.; Bertrand Langlois, gen. mgr.; J. Raymond Roberge sls. mgr.; Louis Asselin, engineer.

B

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SALES AGENTS: Warehouses: Toronto, Ottawa, Quebec.

COMMONWEALTH PLYWOOD CO., LTD.

P.O. Box 70, St. Therese, Quebec, Can.
ANNUAL CAPACITY 40,000,000 sq. ft. (¼-inch basis). Species: birch, oak, elm, mahogany, etc.
PRODUCT: stock, architectural, prefinished.
PERSONNEL: W. J. Cainie, pres.; J. A. LaFleur, exec. vice pres.; B. Williams, prod. mgr.; M. Warren vice pres. & sls. mgr.; L. Paquette, plant supt.
SALES AGENTS: Commonwealth Plywood Co., Ltd., Montreal; Commonwealth Plywood Co., Ltd., New Toronto; Commonwealth Plywood Co., Inc., El Monte, Calif.; Robert Bury Co. (Canada) Ltd.; Toronto, Montreal.

CONTREPLAQUES STE-MARIE, INC.

Plant address: Centre Industriel No. 5, St-Malo, Quebec, P. Q.
Home address: Casier Postal 3173, St-Roch, Quebec, Que.
PERSONNEL: Andre Ste-Marie, pres, Louis Fortin, sls. mgr.; Jean Picard, plant mgr.

COOPERATIVE FEDEREE deQUEBEC

P.O. Box 400, Victoriaville, Que.
PERSONNEL: Paul D. Cote, plant mgr.

CURVPLY WOOD PRODUCTS LTD.

Orono, Ont.
PRODUCT: maple and birch formed plywood.
PERSONNEL: E. H. Samuel, pres.; J. Klasner, gen. mgr.; V. C. Manning, plant mgr.

DOMINION AYERS WOOD PRODUCTS CO. LTD.

Lachute, P. Q., Canada.
ANNUAL CAPACITY: 12,000,000 sq. ft. (¼-inch basis). Species: birch.
PRODUCT: furniture, stock, architectural, doors, formed.
PERSONNEL: Gilbert E. Ayers, pres.; Jacques Bedard, gen. mgr.; Georges Clermont, plant mgr.; Gerard Lefebvre, sls. mgr.

DOMINION PLYWOODS LTD.

Southampton, Ontario.
ANNUAL CAPACITY: 2,000,000 sq. ft. (¼-inch basis). Species: oak, walnut, mahogany, birch, exotic woods.
PRODUCT: furniture, stock, architectural, formed.
PERSONNEL: S. J. Zacks, pres.; J. R. McGillivray, gen. & sls. mgr.; J. O. Bright, plant mgr.; R. Baker, plant supt.

GUELPH PLYWOOD COMPANY LTD.

Plant address: Mattawa, Ontario, Canada.
Home address: 200 St. James Street West, Montreal, Quebec, Can.
ANNUAL CAPACITY: 18,000,000 sq. ft. (¼-inch basis). Species: yellow birch.
PRODUCTS: stock panels, architectural, veneer and colortrend veneer.
PERSONNEL: P. A. Cumyn, pres.; P. M. Graham, gen. & sls. mgr.; A. Cuccaro, plant mgr.
SALES AGENTS: 200 St. James Street West, Montreal, Canada.

HAY & COMPANY, LTD.

Norwich Ave., Woodstock, Ontario, Canada.
ANNUAL CAPACITY: 15,000,000 sq. ft. (¼-inch basis). Species: birch, oak, walnut, mahogany, cherry, pine, cedar.
PRODUCT: furniture, stock, architectural, doors, formed, specialties.
PERSONNEL: A. C. Zapp, gen mgr.; J. P. Rogers, asst. mgr.; J. H. McLeod, sls. mgr.; W. Neller, plant supt.
SALES AGENTS: Weldwood Plywood Ltd., Montreal, Quebec City, Chicoutimi; Sherbrooke, Ottawa, Toronto, Sudbury, London, Winnipeg; J. Fyfe Smith Co., Ltd., Vancouver, B. C.; Fyfe Smith Hardwoods Ltd., Edmonton & Calgary.

HUNTER VENEERS LTD.

Tweed, Ontario.
ANNUAL CAPACITY: 10,000,000 sq. ft. (veneer only). Species: birch, maple, mahogany, poplar.
PERSONNEL: R. J. Hunter, pres.

JAMAR PLYWOOD LIMITED

Main Street, P.O. Box 454, Kirkland Lake, Ontario, Can.

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- ½ HP Gearhead Feedwork Motor
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- Ball Bearing Fence Rolls
- Powered Bottom Rolls
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- Fast Adjustment
- Lock on Fence
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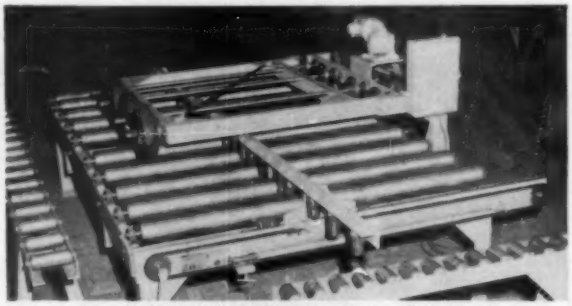
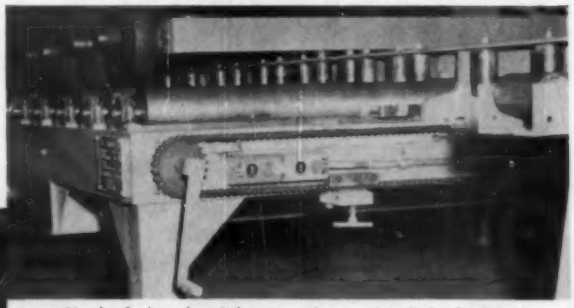
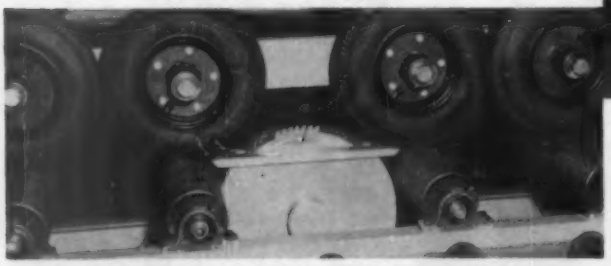


Pictured above, bridge rolls unmovable for all size cut-up.



Simple, foolproof, switch gear and measuring devise for fence.



Shown above, carbide tip saw and bottom powered rolls.

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PHONE: Riverside 7-3335, TWX SPFD., ORE. 072

ANNUAL CAPACITY: 10,000,000 sq. ft. (¼-inch basis). Species: poplar.

PRODUCT: stock.

PERSONNEL: Dr. R. J. Neelands, pres.; E. S. Little, gen. mgr.; R. H. Gilbert, sls. mgr.

SALES AGENTS: Kingsway Lumber Co., Toronto and branches; Weldwood Plywoods Ltd., Montreal and branches; W. Clare Duffus, Ltd., Kitchener, Ont.; Toohall Ltd., Kingston, Ont.; Hill-Clark-Francis Ltd., New Liskeard and branches.

LA CIE PLACO LTEE

Plant address: Tring Jonction, Co. Beauce, P. Q.
Home address: 975 Rue St., Prospu, Trois-Rivieres, P. Q.

ANNUAL CAPACITY: 7,500,000 sq. ft. (¼-inch basis). Species: birch, maple.

PRODUCTS: furniture, doors.

PERSONNEL: Dr. F. X. Lacoursiere, pres.; Leo Beaudry, gen., sls. & plant mgr.; M. Bernard Ranger, plant supt.

Mac CRAFT INDUSTRIES

Harbour St., P.O. Box 56, Sarnia, Ontario.

PRODUCTS: curved or formed plywood.

PERSONNEL: Murray Waghorne, gen. mgr.; Robert L. White, sls. mgr.; Gordon Phillips, plant supt.

NISBET PLYWOOD LTD.

Box 868, Prince Albert, Saskatchewan, Can.

ANNUAL CAPACITY: 7,000,000 sq. ft. (¼-inch basis). Species: poplar.

PERSONNEL: W. D. Smith, pres. & gen. mgr.; J. M. Atkinson, plant mgr.

SALES AGENTS: A. S. Nicholson & Son, Ltd., Burlington, Ont.; Regent Plywood Ltd., Hamilton, Ont.; Imperial Plywood Ltd., Kitchener, Ont.; Plywood Supply Ltd., Kitchener, Ont.

NORTHERN PLYWOODS LTD.

Nipigon, Ontario, Canada.

ANNUAL CAPACITY: 12,000,000 sq. ft. (¼-inch basis). Species: poplar.

PRODUCT: stock.

PERSONNEL: J. E. Harris, pres.; W. G. Harris, gen. & sls. mgr.; L. Perron, plant mgr.; A. Jacks, plant supt.

SALES AGENTS: Clatworthy Lumber Co., London Ont.; Regent Plywoods, Hamilton, Ont.; A. S. Nicholson & Sons, Burlington, Ont.; Ottawa Valley Lumber Co., Montreal, P. Q.; Ralph B. Hunt, Ltd., Montreal, P. Q.; Hardware & Lbr. Ltd., Kingston, Jamaica, B.W.I.

JEAN S. OUELLET

Plant address: 5 Ste-Anne, Riviere du Loup, Quebec.
Home address: 27 rue Joly, Riviere du Loup, Quebec.

OWENS ILLINOIS PLYWOOD (CANADA) LTD.

Princeville, Quebec, Can.

ANNUAL CAPACITY: 40,000,000 sq. ft. (1/24-inch basis). Species: Birch.

PRODUCT: Single ply.

PERSONNEL: F. T. Nesbitt, pres.; H. C. Fidler, gen. mgr.; R. G. Sherman, factories mgr.; D. A. Lee, plant supt.

PANNILL VENEER CO., LTD.

Louisa and St. Leger Sts., Kitchener, Ont.

PERSONNEL: W. A. Baechler, pres., gen. & plant mgr.; W. H. Fabian, sales mgr.; Edson Smith, plant supt.

PRECISION PANELS INC.

Plant Address: St. Basile, Portneuf Co., P. Q.
Home Address: 181 Boulevard Labelle, Ste. Rose de Laval, P. Q.

ANNUAL CAPACITY: 9,000,000 sq. ft. (¼-inch basis). Species: Birch, maple, basswood, poplar.

PRODUCTS: Furniture, flush doors.

PERSONNEL: E. M. Martin, pres. & gen. mgr.; M. LaFleur, plant mgr.; C. F. Stowe, sales mgr.; L. Ranger, plant supt.

SALES AGENTS: Plywood Associates Inc., 181 Boulevard LaBelle, Ste. Rose de Laval, Quebec.

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RODDIS LUMBER & VENEER CO. OF CAN. LTD.

R. R. No. 3 Peoples Road, Sault Ste. Marie, Ont.

ANNUAL CAPACITY: 10,000 surface feet of veneer per mo. on 1/24" equivalent. Species: Yellow birch.

PERSONNEL: Jack Hobelsberger, pres.; John Besse, plant mgr.; W. B. Pahl, sales mgr.; Vello Hanson, plant supt.

STANIFORTH LUMBER & VENEER LTD.

Plant Address: Kiosk, Ontario, Can.

Home Address: 437 St. James St., W., Montreal 1, P. Q.

ANNUAL CAPACITY: Veneer 25,000,000 sq. ft. 1/24-inch. Species: Yellow birch.

PRODUCTS: Rotary cut birch veneer, bunch clipped for book matching.

PERSONNEL: S. J. Staniforth, pres.; H. F. Staniforth, gen. mgr.; W. D. Staniforth, plant mgr.; A. Mantha, plant supt.

WILBERFORCE VENEER & LUMBER CO., LTD.

Wilberforce, Ont.

PRODUCTS: Furniture—Maple, birch, basswood.

PERSONNEL: J. T. Wallace, pres.; F. H. Hershey, gen. mgr.; B. Gibbs, plant supt.

WORLD PLYWOOD & VENEER CO., LTD.

St. Casimir, P. Q., Can.

ANNUAL CAPACITY: 30,000,000 sq. ft. (¼-inch basis). Species: Birch, oak, walnut, mahogany.

PRODUCT: Stock.

PERSONNEL: Morris Cohen, pres.; Angus Bruce, plant mgr.

●

New Aetna President

Don L. Davis Jr., is new president of Aetna Plywood & Veneer Co., Chicago, distributor and wholesaler of plywood products.

New Species Tried

Cowlitz Veneer Co. at Randle, Wash., has been conducting tests to determine if spruce and tamarack logs from eastern Washington forests can be utilized for plywood. John Moore, head of the firm, agreed to the tests following requests from the forest service that firms in the area take small lots of logs on a test basis to determine if they could be used. Results of the tests are not complete.

●

• Latest product added by Western Plywood Ltd. of Vancouver, B. C., is a medium-density plastic overlay siding. Western President John Bene reports that plans are shaping up for the long-planned consolidation of manufacturing facilities at a new plant on Deas Island in the Fraser River. The move will be made possible in 1960. The plans for a pulp mill are definitely still on, but with the present overproduction in the pulp industry no construction is planned within the next five years.

●

• Robert Carroll, formerly with Oregon-Washington Plywood Co., has been named general manager of Miami Veneer Co., Tillamook, Ore. Mr. Carroll is currently serving on the state board of forestry in Oregon.

Cottonwood Panels Well Received

Cottonwood plywood panels produced at Western Plywood Co. in Everett, Wash., are receiving good acceptance, company officials report. The firm plans to further broaden its product line with high and medium density fir plywood and Walton Everside siding. Some hemlock, noble fir and spruce panels will also be produced.

The firm recently added another hot press, is now entirely a hot press operation. Two spreaders have also been added. T. F. Goodson is president of the firm, A. L. Lung is general manager.

●

U. S. Ply Names Chief Of Canadian Operations

Austin C. Zapp has been named general manager of Hay & Co., Ltd., Canadian manufacturing subsidiary of United States Plywood Corp. He succeeds Lloyd L. Miller who has retired.

Canadian operations under Zapp's direction include a plywood plant and veneer plant at Woodstock, Ont.; a flooring plant and sawmill at Huntsville, Ont.; a sawmill at Hailburton, Ont.; a sawmill and lumber core plant at Searchmont; and extensive timber holdings.

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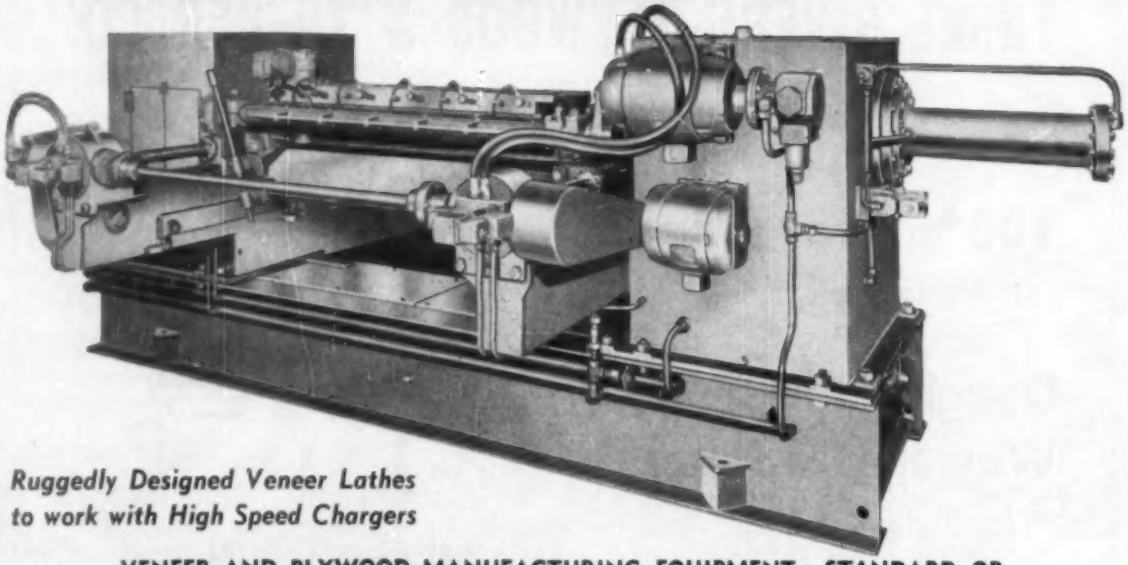

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Anacortes Veneer, Inc.	ARMORON	Natural, Black, Green
(Conc. Form)	ARMORON	Grey-Green
Cascades Plywood Corp.	PERMAPLY	Natural, Black, Green
Farwest Plywood Co.	RAINBOARD	Natural
(Conc. Form)	RAINBOARD	Brown
Georgia-Pacific Corp.	GPX General Use	Natural, *Black, *Green
(Conc. Form)	GPX	Natural
Harbor Plywood Corp.	HARBORITE HD	Warm Tan, Black
Hines, Edward, Lumber Co.	HI-DENSITY	Natural, *Black, *Green
International Paper Co.	HI-DENSITY OVERLAID	Natural, *Black, *Green
Simpson Logging Co.	HI-DENSITY	Natural, *Black, *Green
St. Paul & Tacoma Lbr. Co.	PLYGLAZE	Natural, Black, Green
(Conc. Form)	PLYGLAZE	Natural
Washington Plywood Co., Inc.	EVERUSE	Natural, Black, *Green
(Conc. Form)	EVERUSE	Natural

*This color available upon special order.

MEDIUM DENSITY OVERLAY

Anacortes Veneer, Inc.	ARMORITE	Wood Tone
Cascades Plywood Corp.	DURAPLY	Coral
Diamond Lumber Co.	CREZON SURFACED	Wood Tone
Farwest Plywood Co.	RAINBOARD MEDIUM	Wood Grain
Georgia-Pacific Corp.	GPX GREEN	Light Green
Harbor Plywood Corp.	HARBORITE SUPER GRADE	Brown
Edward Hines Lumber Co.	EHLCO-PLY	Wood Tone
International Paper Co.		Wood Tone
Mt. Baker Plywood Inc.	CREZON SURFACED	Wood Tone
Roseburg Lumber Co.	CREZON SURFACED	Wood Tone
Simpson Logging Co.		Wood Tone
St. Paul & Tacoma Lbr. Co.	PLYALOY	Wood Tone
U. S. Plywood Corp.	DURAPLY	Coral
Washington Plywood Co., Inc.	EVERLAST	Wood Tone
West Coast Plywood Co.	WELCHBOARD	Wood Tone

RELIEF GRAIN

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Everett Plywood & Door Corp.
BRUSHT-PLY
Georgia-Pacific Corp.
RIPPLEWOOD
Harbor Plywood Corp.
HARBORWAVE
Medford Veneer & Plywood Corp.
WINDRIFT
Mt. Baker Plywood, Inc.
DRIFTWOOD
Northern California Plywood, Inc.
ROYAL-PLY
North Pacific Plywood, Inc.
DECO PANEL
Puget Sound Plywood, Inc.
GRAINGLO
Roddiscraft, Inc.

Roseburg Lumber Co.
BRUSH WOOD
Simpson Logging Co.
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Everett Plywood & Door Corp.
Fort Vancouver Plywood Co.
Georgia-Pacific Corp.
International Paper Co.
Lane Plywood Inc.
Menasha Plywood Corp.
Multi-Use Panel Corp.
Mt. Baker Plywood Inc.
North Pacific Plywood
Northwest Door Co.
Puget Sound Plywood Inc.
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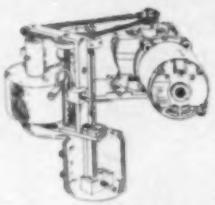

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Soderhamn Machine Mfg. Co., Talledega, Ala.; Portland, Oregon

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Medford Blowpipe Co., Medford, Ore.
Rader Pneumatics, Inc., Portland; Vancouver, B. C.

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Corley Mfg. Co., Chattanooga; Portland
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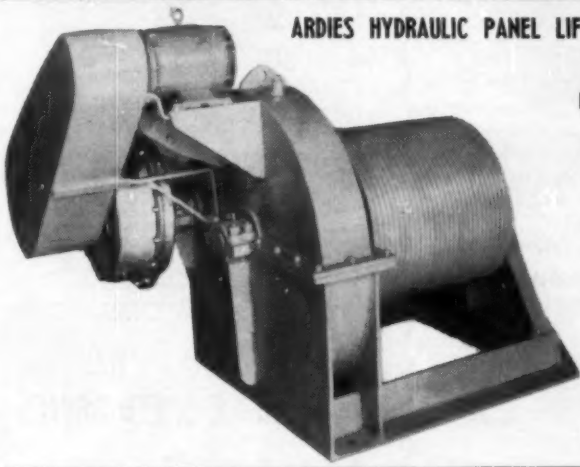
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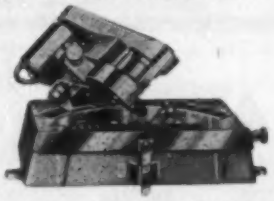

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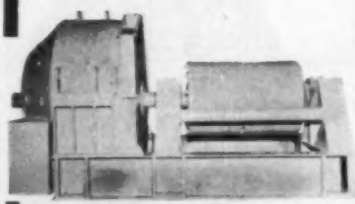

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Columbia Division, Lodge & Shipley Co., Hamilton, Ohio
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Motorola Inc., Chicago, Ill.

REFUSE BURNERS
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Archer Blower & Pipe Co., Portland, Ore., and Seattle, Wash.
Phelps Bros., Eugene, Ore.
Seattle Boiler Works, Seattle

ROLLS, rubber
Columbia Rubber Mills, Portland
Kenton Machine Works, Portland

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Raybestos-Manhattan, Inc., Manhattan Rubber Div., Passaic, N. J.
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Ohio Knife Company, Seattle; Portland; Oakland; Cincinnati
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Simonds Saw & Steel Co., Fitchburg, Mass.; Portland
Spear & Jackson Ltd., Vancouver, B. C.; Eugene, Ore.

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Champion Friction Co., Eugene, Ore.

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Goldstein & Bloch, Aberdeen, Wash.
Irvington Machine Works, Portland
Jeddeloh Bros., Gold Hill, Ore.
Keystone Machine Works, Roseburg, Ore.
Klamath Iron Works, Klamath Falls, Ore.
Klamath Machine & Locomotive Works, Klamath Falls
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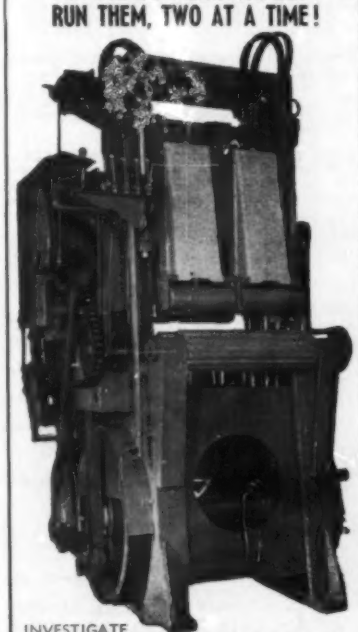

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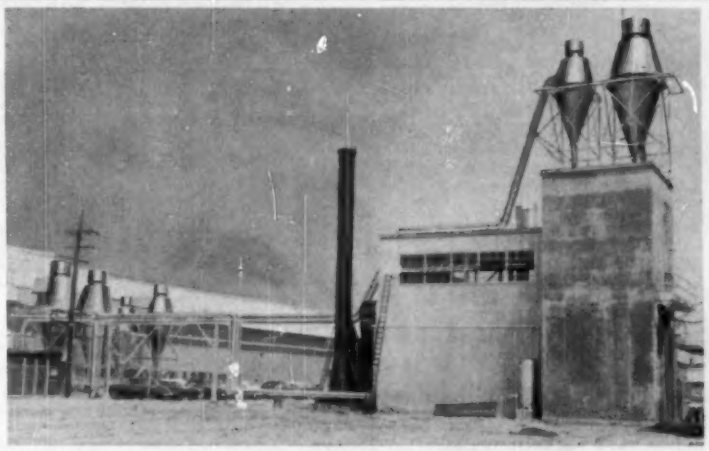

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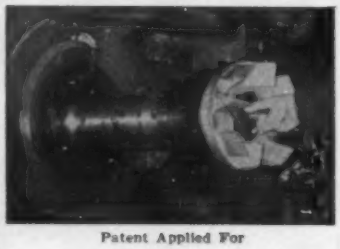

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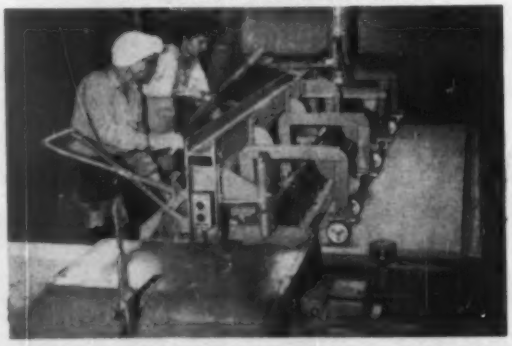

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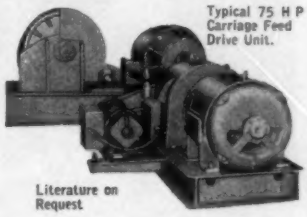

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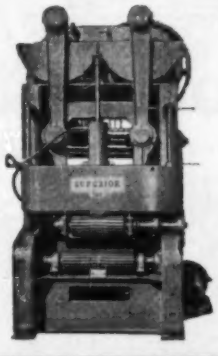

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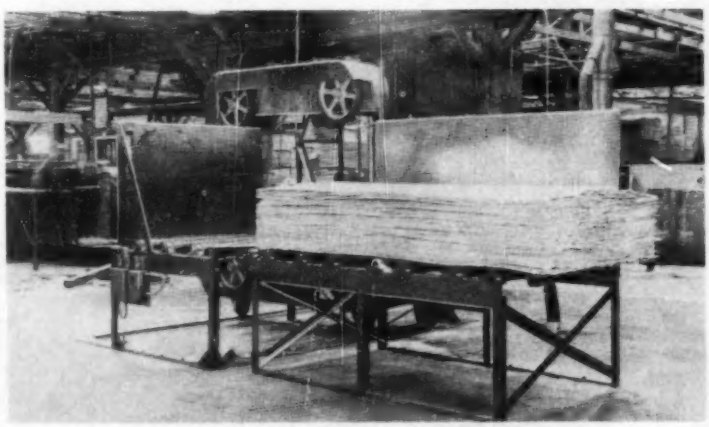

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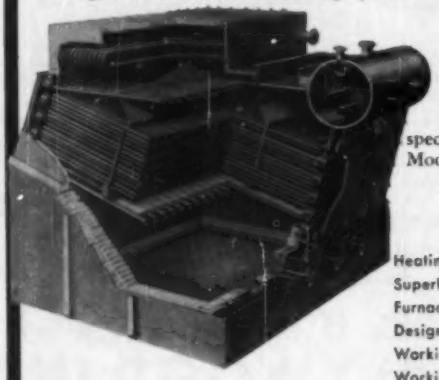

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Furnace Volume, Cu. Ft.	780
Design Pressure, Lb. Sq. Inch	250
Working Press. at Drum, Lb. Sq. Inch	230
Working Press. at Superheater Outlet, Lb. Sq. Inch	220
Safety Valve Setting—S.H., Lb. Sq. Inch	230
Normal Evaporation Rate, Lb. Steam per Hr.	24,000
Final Steam Temperature, Deg. F.	450°
Feed Water Temperature, Deg. F.	220°
Weight of Water to Steaming Level, Lbs.	14,600
Oil Burners, Pressure Atomizing Type, Number	4

WEIGHTS AND DIMENSIONS

Weight of Complete Boiler, Lbs.	120,760
Weight of Water (hot) per Boiler, Lbs.	14,600
Weight of One Superheater, Lbs.	9,500
Weight of One Steam Drum, Lbs.	10,000
Weight of Brick, Lbs.	24,969

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	Number	O.D. in Inches	Wall Thick., BWG
Boiler Generating	88	4	6
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3¼c lb. F.O.B. Portland

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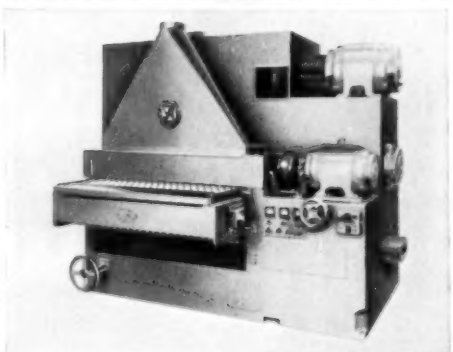

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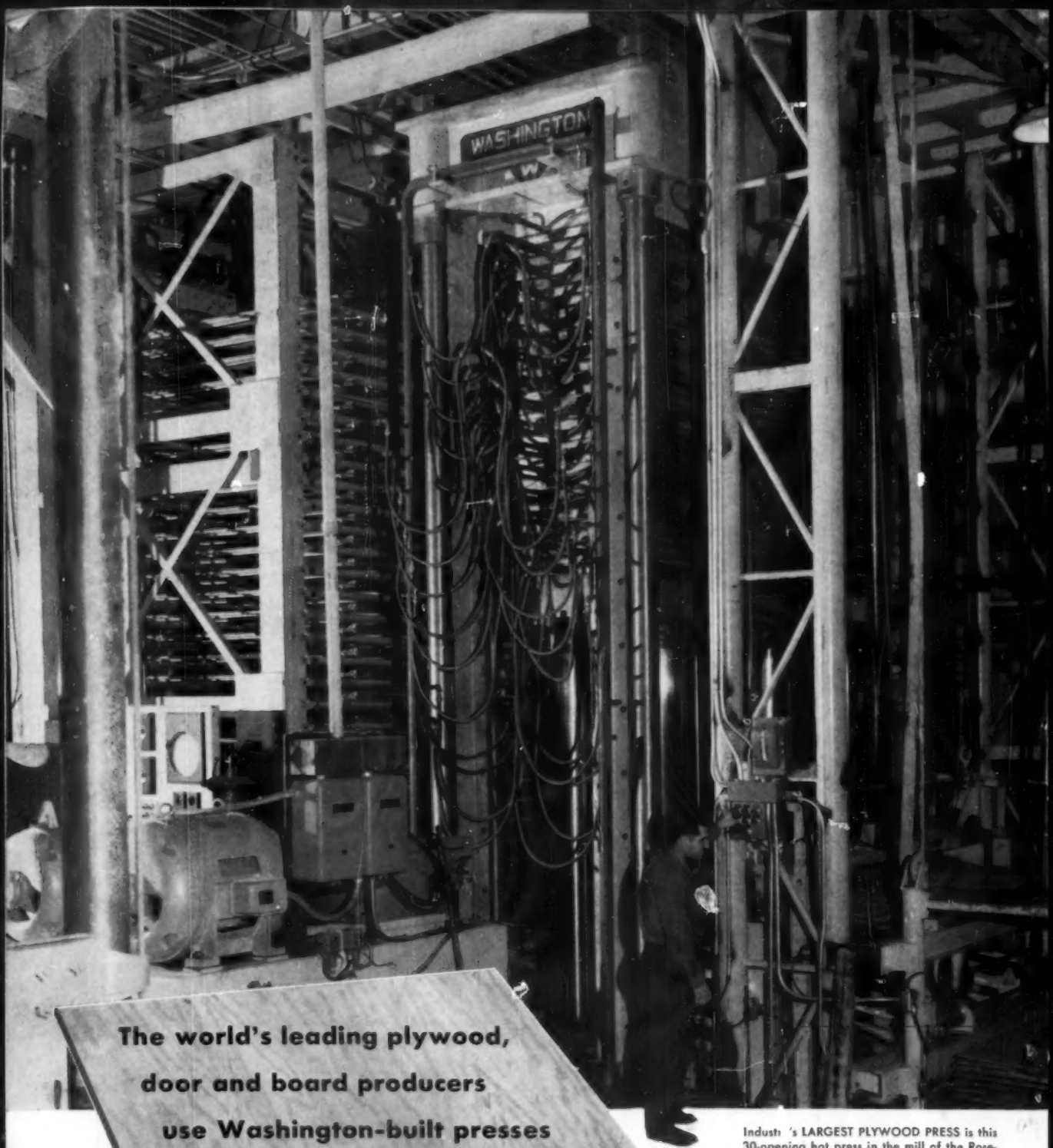

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